Attack on Indian Government, Financial Institutions

zscaler.com/blogs/research/targeted-attacks-indian-government-and-financial-institutions-using-jsoutprox-rat Published on: May 11, 2020 Authored by: Sudeep Singh Category: Encryption Evasion/Stealth Malware

It is not uncommon for cybercriminals to target specific countries or regions. They often employ this strategy

In April 2020, ThreatLabZ observed several instances of targeted attacks on Indian government establishments and the banking sector. Emails were sent to organisations, such as the Reserve Bank of India (RBI), IDBI Bank, the Department of Refinance (DOR) within the National Bank for Agriculture and Rural Development (NABARD) in India with archive file attachments containing JavaScript and Java-based backdoors.

Further analysis of the JavaScript-based backdoor led us to correlate it to the JsOutProx RAT, which was used for the first time by a threat actor in December 2019 as mentioned by <u>Yoroi</u>.

The Java-based RAT provided functionalities similar to the JavaScript-based backdoor in this attack.

In this blog, we describe in detail the email attack vector of this targeted campaign, the technical analysis of the discovered backdoors, and our conclusions on this attack.

Email analysis

Below is the email that was sent to the government officials in NABARD, which contained a malicious archive file attachment.

Department of Refinance

KCC Saturation To: Department of Refinance, Reply-To: dor@naard.org

Dear sir

Please find the attached on the captioned subject.

regards

Parit Gupta	
AM	
पुनर्वित्त विभाग / Department of Refinance	
नाबार्ड / NABARD	
प्रधान कार्यालय / Head Office	
तिसरी मंज़िल ए & बी विंग / 3rd Floor A & B Wing	
बांद्रा कुर्ला संकुल / Bandra Kurla Complex	
बांद्रा (पुर्व) / Bandra (East)	
मुंबई / Mumbai - 400 051	



KCC_Saturation_ letter_t...pdf.zip

Figure 1: Email sent with malicious attachment to NABARD.

The email attachment filename is: KCC_Saturation_letter_to_all_StCBs_RRBs_pdf.zip

This archive contains an HTA file inside it that performs the malicious activities.

The MD5 hash of the HTA file is: 23b32dce9e3a7c1af4534fe9cf7f461e

The theme of the email is related to KCC Saturation, which relates to the Kisan Credit Card scheme and is detailed on the official website of <u>NABARD</u>.

Attackers leveraged this theme because it is relevant to the Department of Refinance, making this email look more legitimate.

We used the email headers to trace the origin to hosteam.pl, which is a hosting provider in Poland as shown below:

X-Auth-ID: syeds@rockwellinternationalschool.com

Received: by smtp10.relay.iad3b.emailsrvr.com (Authenticated sender: syeds-AT-rockwellinternationalschool.com) with ESMTPSA id 0928BE00BD;

Mon, 20 Apr 2020 21:33:53 -0400 (EDT)

X-Sender-Id: syeds@rockwellinternationalschool.com

Received: from WINDEB0UPGVCUK (unused-31-133-6-113.hosteam.pl [31.133.6.113])

(using TLSv1.2 with cipher DHE-RSA-AES256-GCM-SHA384)

by 0.0.0.0:465 (trex/5.7.12);

Mon, 20 Apr 2020 21:34:40 -0400

The same HTML Application (HTA) file was also sent in an archive attachment to IDBI bank as shown in Figure 2.

🖬 Message 🦉 e_call_clicular_poff.zip	
From: rinkal.bhavsar@idbl.co.in [rinkal.bhavsar@iddbl.co.in] Sent: Tuesday, April 21, 2020 7:12 AM To: rinkal.bhavsar@idbl.co.in Subject: E call money	
This Email Is From External Source, Be Cautious While Opening Any Attachments/Links, also pay attention to the mails regarding CORONA and COVID	
Dear,	
Please find attached circular on Call Money Bomoving from Co-operative Banks.	
Kindly scan the following attached documents & forward at <u>mmh tfo®idbi co.in</u> .	
Rinkal S Nair रिकल जायर	
Asst. Manager Treasury Front Office	
सहायक प्रबंधक । ईजरी केट ओफिस	
IDBI Bank Ltd Mumbai	
आईडीबीआई बैंक लिमिटेड - मुंबई	I
Contact / दूरमायः 022-65253876	

Figure 2: The email sent with a malicious attachment to IDBI bank.

Based on the email headers and the infrastructure used to send the previous emails, we were able to identify more instances of these attacks and were able to attribute them to the same threat actor.

Figure 3 shows an email sent to RBI with an archive file that contains a Java-based backdoor.

hasita@rbi.org.in <hasita@rnbbi.org.in></hasita@rnbbi.org.in>	6 April 2020 at 02:15
Di form To: hasita@rbi.org.in <hasita@rbbi.org.in>,</hasita@rbbi.org.in>	
No. Instruction of the second se	
rah in receive from the	
Madam/Sir,	
Please find the attached.	
सादर / Regards,	
यी इसिता / V Hasita	
सहायक प्रबंधक / Assistant Manager	
विस्तार सं 022-23026400- 8231 / Extn. No. 022-23026400-8231	
निक्षेप बीमा और प्रत्यय गारंटी निगम / Deposit Insurance and Credit Guarantee Corporation	
बीमा परिवालन विभाग / Insurance Operation Department	
Caution: The Reserve Bank of India never sends mails, SMSs or makes calls asking for personal information such as your bank account details, pas do not respond in any manner to such offers, however official or attractive they may look.	sswords, etc. It never keeps or offers funds to anyone. Please
Notice: This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are add dissemination, use, review, distribution, printing or copying of the information contained in this e-mail message and/or attachments to it are strict notify us by return e-mail or telephone and immediately and permanently delete the message and any attachments. The recipient should check thi Reserve Bank of India accepts no liability for any damage caused by any virus transmitted by this email.	ly prohibited. If you have received this email by error, please

DI_form_HY_file_ 00002_pdf_zip

Figure 3: The email sent with a malicious attachment to RBI.

Figure 4 shows an email that was used to send an archive file with a Java-based backdoor to Agriculture Insurance Company of India (AIC).

osbhp.manojg@aicofindia.com <osbhp.manojg@acofindia.com></osbhp.manojg@acofindia.com>	6 April 2020 at 01:55
राष्ट्रीय कृषि बीमा योजना रबी	
To: osbhp.manojg@aicofindia.com <osbhp.manojg@acofindia.com>,</osbhp.manojg@acofindia.com>	
Reply-To: osbhp.mnojg@aicofindia.com	
महोदय,	
कृपया इस ईमेल के साथ संलग्न राष्ट्रीय कृषि बीमा योजना रखी 2020-21 मौसम के क्रियान्वयन हेतू जारी पत्र को प्राप्त करें।	
धन्यवाद,	
एप्रीकल्पर इंस्पोंस कंपनी ऑफ इंडिया लि.	
क्षेत्रीय कार्यालय, भोपाल	
फोन नें. 0755-4026101,102,103	
29	
rabi_2020_06-0 02301pdf.zip	

Figure 4: The email sent with a malicious attachment to AIC India.

The contents of the email are in the Hindi language.

In both of the cases above, the Java-based backdoor has the same hash and only the filenames used were different.

The hash of the JAR file is: 0ac306c29fde5e710ae5d022d78769f6

Technical analysis of JsOutProx

The MD5 hash of the HTA file is: 23b32dce9e3a7c1af4534fe9cf7f461e

Upon execution, the HTA file displays junk data in a window that flashes quickly on the screen before auto-closing.

This HTA file contains a JavaScript that is executed by mshta as can be seen in the file header in Figure 5.



Figure 5: The HTA header in the file.

There is a long array of encoded strings present at the beginning of the JavaScript as shown in Figure 6.

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Figure 6: A long array of encoded strings.

This array of strings will be referenced throughout the JavaScript. They are base64 decoded and RC4 decrypted at runtime at the time of execution.

JavaScript code in this HTA file is heavily obfuscated as shown in Figure 7.

'v4LDuiTCklUVWsOlv47CgsOXv6HctEXCml9c2g==','vqnClcKzw5IJSME9','YMEqcXI='];(function(c,d) {var e=function(f) {uhile(--f) {c['push']{c['shift']()};});e(++d);}(a,0x?f));var b=function(c,d) {c=c-0x0;var e=a[c];if(b['dNaOfO']===undefined}) {(function() {var f;try{var g=Function('return\x20(function())x20'+ w4LDuiTCk1UVWs01w47Ccs0Xw6HCtEXCm19cZc

Figure 7: The heavily obfuscated JavaScript code.

The string decoding and decryption routines are shown in Figure 8.



Figure 8: The string decoding and decryption routines.

After analyzing the string decryption routine, we can see that RC4 algorithm was used.

The process of string decryption can be summarized in the following steps:

- 1. The string decryption routines are invoked with calls such as: b('0x4', 'qP52'). The first parameter is the index of the encoded string in the long array declared at the beginning of the JavaScript. The second parameter is the RC4 decryption key.
- 2. The string is base64 decoded using atob() JavaScript function.
- 3. An S-box is generated using a for loop to generate the sequence: 0x0 to 0x100.
- 4. S-box is permutated using the decryption key.
- 5. The permutated S-box is used to perform XOR decryption of the encrypted string.

After decrypting all the strings in this JavaScript, we can see the main configuration as shown in Figure 9.

```
window["resizeTo"](0x0, 0x0);
window["moveTo"](screen["availWidth"] * 0x2, screen["availHeight"] * 0x2);
var bC = {};
bC['Fs'] = new ActiveXObject("Scripting.FileSystemObject");
bC["Wsh"] = new ActiveXObject("WScript.Shell");
bC['Sh'] = new ActiveXObject("Shell.Application");
bC["BaseUrl"] = "http://backjaadra.ddns.net:8999/";
bC["StartDate"] = new Date();
bC["AllStartupDir"] = bC["Wsh"]["SpecialFolders"]("allusersstartup")) + '\x5c';
bC["StartupDir"] = bC["Wsh"]["specialFolders"]("startup")) + '\x5c';
bC["AppData"] = bC["Wsh"]["ExpandEnvironmentStrings"]("%appdata%")) + '\x5c';
bC["Temp"] = bC["Wsh"]["ExpandEnvironmentStrings"]("%temp%")) + '\x5c';
bC["InstallDir"] = bC["AppData"];
bC["InstallPath"] = '';
bC["Delimiter"] = " | ");
bC["SleepTime"] = 0x2710;
bC["Delay"] = 0x2710;
bC["Tag"] = "Vaster";
bC['ID'] = '';
bC["IDPrefix"] = " giks=";
bC["RunSubkey"] = "HKCU\software\microsoft\windows\currentversion\run\";
```

Figure 9: The main configuration file of the JsOutProx backdoor.

Some of the critical parameters in the above config file are:

- 1. BaseURL: This is the C2 communication URL. In this case, it makes use of Dynamic DNS (*.ddns.net) and a non-standard port.
- 2. Delimiter: This is the delimiter that will be used while exfiltrating information about the system.
- 3. **SleepTime**: The duration for which the execution needs to be delayed.
- 4. **Delay**: Similar to the SleepTime parameter.
- 5. **Tag**: This is a unique indicator that is appended to the data during exfiltration. In this case the tag is: Vaster. The first time this JavaScript based backdoor was discovered in December 2019, the value of this tag was: JsOutProx.
- 6. **IDPrefix**: This parameter corresponds to the Cookie name that will be set in the HTTP POST request sent by the backdoor to the C2 server at the time of initialization.
- 7. RunSubKey: This is the Windows Registry Key that will be used for persistence on the machine.

The script checks whether it is being executed by mshta, wscript or by an ASP Server as shown in Figure 10.

```
// check if the script is being executed as an HTA file
// if typeof window != "undefined" then it is an HTA
bC["isHTA"] = function() {
    var bL = {};
   bL["IRPZd"] = function(bM, bN) {
       return bM !== bN;
    1:
   bL["PRrod"] = "undefined";
    return bL["IRPZd"](typeof window, bL["PRrod"]);
1;
// Check if script is being executed by WScript
bC["isWScript"] = function() {
    var b0 = {};
   bO["PHEhI"] = function(bP, bQ) {
        return bP !== bQ;
    1;
    return b0["PHEhI"](typeof WScript, "undefined"));
1;
// Check if Script is being executed by an ASP server
bC["isASP"]) = function() {
    var bR = {};
   bR["cXZmp"] = function(bS, bT) {
       return bS !== bT;
   };
   bR["ANwJk"] = "undefined");
    return bR["cXZmp"](typeof Server, bR["ANwJk"]);
};
```

Figure 10: Checks for source of execution.

This also indicates that the script has the capability to execute in different environments, including web servers. The first instance of JsOutProx discovered in December 2019 was a JavaScript file. The instance we discovered in April 2020 was an HTA file with the JavaScript code obfuscated and embedded inside. So we are observing this threat actor deploy the backdoor using different methods in the wild.

The script also has the ability to delay execution as shown in Figure 11.

```
// Delay execution by 10 seconds if the file is not present
bC["waitFor"] = function(bU, bV) {
    var bW = {};
    bW["VlUkL"] = "undefined";
   bV = typeof bV === bW["VlUkL"] ? 0x2710 : bV;
    var bX = new Date()["getTime"]() + bV;
    while (!bC["File"]["fileExists"](bU)) {
       if (new Date()["getTime"]() > bX) {
           break;
        }
    }
};
// Sleep for bY seconds
bC["sleep"] = function(bY) {
    var bZ = new Date()["getTime"]();
    while (new Date()["getTime"]() < bZ + bY);</pre>
};
// Delay execution by cO seconds
bC["sleepEx"] = function(c0) {
    var c1 = {};
    c1["XmkCR"] = "SJjck";
    if (bC["isWScript"]()) {
        WScript["sleep"](c0);
    } else {
        if ("auZuy") !== c1["XmkCR"]) {
           bC["sleep"](cO);
        } else {
            return !![];
        }
    }
1;
```

Figure 11: Delaying execution.

The init() routine is the initialization routine, which gathers different types of information from the system and sends it in an HTTP POST request to the C2 server as shown in Figure 12.

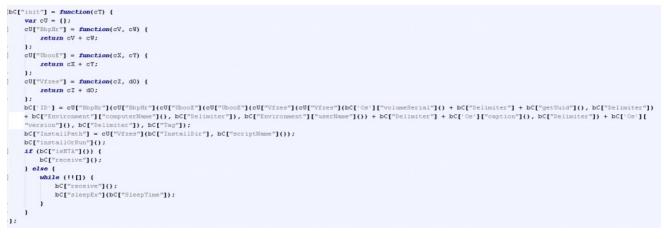


Figure 12: The main initialization routine.

The individual fields collected during init() routine are:

Volume serial number: Fetches the volume serial number using WMI query: "select * from win32_logicaldisk" by inspecting the volumeSerialNumber field.

ComputerName: Host name of the machine.

UserName: User name of the machine on which this script is executing.

OS caption: This value is fetched using the WMI query: "select * from win32_operatingsystem" by inspecting the Caption field.

OS version: This information is also gathered using WMI query similar to OS caption.

Tag: This is the tag defined in the configuration of the backdoor. In our case, the tag is Vaster.

The last keyword is "ping," which is added by the receive() method.

All these values are separated by the delimiter " $_|_$ " and concatenated, then hex encoded and set in the Cookie header called "_giks" of the HTTP POST request sent to the C2 server as shown in Figure 13.

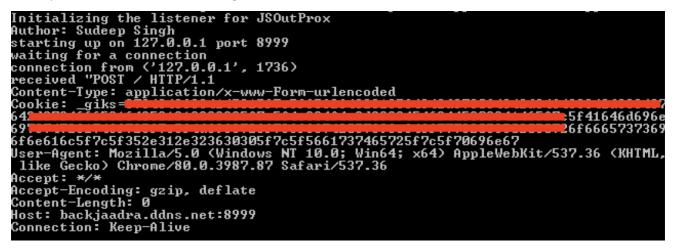


Figure 13: First HTTP POST request sent to the C2 server.

The command and control communication between the backdoor and the C2 server is synchronized using the Cookie in the HTTP request and responses.

The last field in the cookie indicates the type of client command.

For example, if the cookie is:

Cookie: _giks=464646464646464646465f7c5f65363261396233322d323434352d346166612d393233622d3836653530306530363665655f7c5f486f73746e61t

Then the client command can be identified as:

- 1. Hex decode the cookie to get: FFFFFFF_l_e62a9b32-2445-4afa-923b-86e500e066ee_l_Hostname_l_Administrator_l_OS_Name_l_Version_l_Vaster_l_ping
- 2. Split the decoded content using the delimiter: "_|_" to get: ['FFFFFFF', 'e62a9b32-2445-4afa-923b-86e500e066ee', 'Hostname',
- 'Administrator', 'OS_Name', 'Version', 'Vaster', 'ping']
- 3. Extract the last field from the above list. In this case the command is: ping.

Figure 14 shows the main subroutine in the code that handles all the commands.



Figure 14: The C2 command handler subroutine in JsOutProx.

The description of the commands are included in the table below.

Command Description

upd	Download and execute the script.
rst	Re-launch the script.
132	Similar to rst command.
dcn	Exit the execution.
rbt	Reboot the system.
shd	Shutdown the system.
lgf	Shutdown the system.
ejs	Use eval() to execute the JavaScript sent by server.
evb	Use ActiveXObject to execute the VBScript sent by server.
uis	Uninstall the backdoor.
ins	Install the backdoor.

fi	Invokes the File Plugin.
do	Invokes the Download Plugin.
sp	Invokes the ScreenPShellPlugin.
cn	Invokes the ShellPlugin.

Technical analysis of the Java-based backdoor

The MD5 hash of the JAR file is: 0ac306c29fde5e710ae5d022d78769f6

The JAR file is heavily obfuscated in this case. The structure of the JAR file is shown in Figure 15.

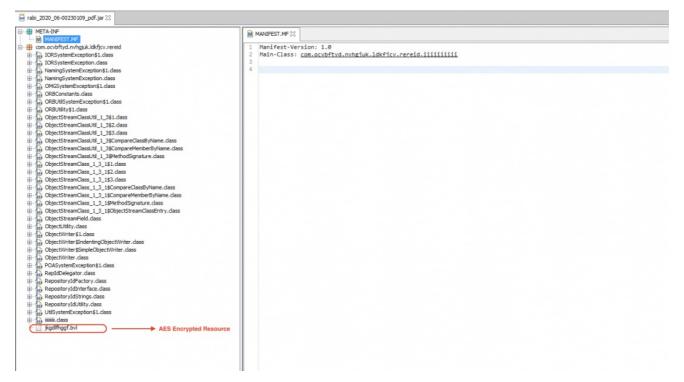


Figure 15: The JAR file structure.

There is an AES-encrypted resource present in this JAR file with the name: "jkgdlfhggf.bvl".

This resource will be loaded and decrypted at runtime as shown in Figure 16.



Figure 16: The Stage 1 resource decryption routine.

This resource gets decrypted to another JAR file, which will be dropped in the %appdata% directory on the machine with the name jhkgdldsgf.jar

The dropped JAR file contains all the functionality for this Java-based backdoor. Figure 17 shows the main structure of the JAR file.

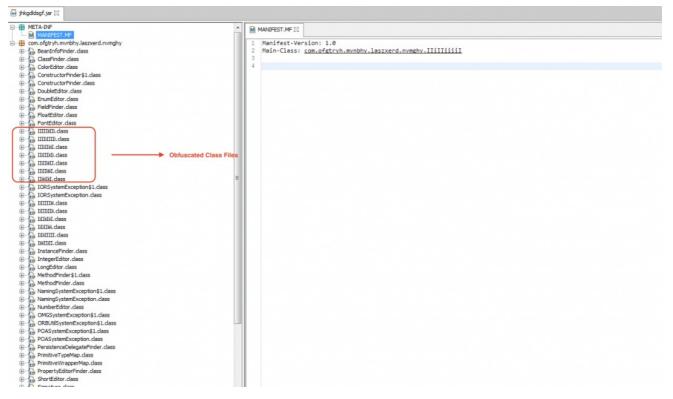


Figure 17: The JAR file structure of the Java-based backdoor.

All the strings in this JAR file are obfuscated by an obfuscator called Allatori. The string decryption routine is as shown in Figure 18.



Figure 18: The string decryption routine.

We described this string decryption routine in more details in an earlier <u>blog</u>, which also includes the Python implementation of the decryption routine.

The JAR file connects to the C&C server: scndppe.ddns.net at port 9050.

This Java-based backdoor is modular in structure and contains several plugins. Figure 19 shows the main network controller code that handles the C&C communication and dispatches the commands to corresponding plugins for further processing.

```
public static void 50 (String string2, String[] arrstring, iiiiiiiii_11 iiiiiiii_112) {
   try {
       String string2;
       String string3 = string2;
       String[] 1732 = arrstring;
       iiiiiiiiiiiii 11 1733 = iiiiiiiiiii 112;
       if (string3.startsWith("sc")) {
           IiiiiIIIII.50(string2, arrstring, iiiiiiiiii_112);
           return;
       if (string2.startsWith("aut")) {
    String[] arrstring2 = new String[3];
          arrstring2[0] = iiiiiiiiii 13.11();
          arrstring2[1] = iiiiiiiiii 13.51;
          arrstring2[2] = iiiiiiiiii13.5;
          return;
       String string4 = string2;
       if (string2.startsWith("cm")) {
           iiiiiiiii_4.50(string4, arrstring, iiiiiiiiii_112);
           return:
       if (string4.startsWith("dn")) {
           iiiiiiiii_16 iiiiiiiii_162 = new iiiiiiiiii_16(string3, 1732, 1733);
          return;
       if ((string2.startsWith("fm"))) {
           iiiiiiiii_15 iiiiiiiii_152 = new iiiiiiiiii_15(string3, 1732, 1733);
           return;
       String string5 = string2;
```

Figure 19: The network controller command handler.

The controller receives the command along with an array of strings that represent the parameters for the corresponding command.

Each of the C&C commands are used to invoke a plugin that executes the command sent by the server.

Command Invoked Plugin

SC	Screen plugin.
aut	Log plugin.
cm	Command plugin.
dn	Downloader plugin.
fm	Filemanager plugin.
st	Startup plugin.
ln.t	Base plugin to exit execution.
ln.rst	Base plugin to restart execution.

Now, we will describe two main plugins in this Java-based backdoor and the commands processed by them.

Filemanager plugin: This plugin is responsible for managing all the file system related actions which can be performed by the attacker remotely. The plugin supports multiple commands and the summary is in the table below.

Plugin command Purpose

Fm.dv	Get list of system drives (including CD drive.)
Fm.get	Get list of files and folders in a directory.

Fm.nd	Create a new directory.
Fm.e	Execute a command using Runtime.getRuntime().exec()
Fm.es	Start a new system shell based on the type of OS.
Fm.cp	Copy contents of one file to another.
Fm.chm	Change the permissions of a file using chmod command (only for Linux and Mac).
Fm.mv	Move a file from one location to another.
Fm.del	Delete a file.
Fm.ren	Rename a file.
Fm.chmod	Similar to chm command.
Fm.down	Download a file from the system. Contents of the file are Gzip compressed and Base64 encoded before downloading.
Fm.up	Upload a file to the system. Contents of the file Gzip decompressed and Base64 decoded before dropping on the file system.

Screen Plugin: This plugin uses the java.Awt.Robot class to perform all the mouse and keyboard simulations on the machine as well as to take screen captures. The commands for this plugin are detailed in the table below.

Plugin Command	Purpose
sc.op	Fetch the screen size width and height information.
sc.ck	Simulate mouse actions like double click, scroll up and scroll down.
sc.mv	Move the mouse cursor to specified co-ordinates.
sc.cap	Take a screen capture.
sc.ky	Send keystrokes to the machine.

Persistence: To ensure that this JAR file is executed automatically when the system reboots, a Window run registry key is created as shown below:

HKCU\Software\Microsoft\Windows\CurrentVersion\Run /v jhkgdldsgf /d '\'C:\Program Files\Java\jre1.8.0_131\bin\javaw.exe\' -jar \'C:\Users\user\AppData\Roaming\jhkgdldsgf.jar\" /f

Cloud Sandbox detection

Figure 20 shows the Zscaler Cloud Sandbox successfully detecting the Java-based backdoor.

ZSCaler Cloud	Sandbox				C
CANDBOX DETAIL REPORT	E5D022D78769F6	High Risk Moderate Risk Low Ris Analysis Performed: 27/04/2020 14:0		File Type: Java ARchive files	analys
CLASSIFICATION		VIRUS AND MALWARE		SECURITY BYPASS	
Class Type Malicious Category Malware & Botnet	Threat Score 86	No known Małware found		 Sample Sleeps For A Long Time (Installer Files Shows These Property). Executes Massive Amount Of Sleeps In A Loop 	3
NETWORKING	5.7 2.9	STEALTH	5 A 2 N	SPREADING	
Uses Dynamic DNS Services Detected TCP Or UDP Traffic On Nor Performs DNS Lookups URLs Found In Memory Or Binary Da		Creates Autostart Registry Keys To Launch	Java	No suspicious activity detected	
INFORMATION LEAKAGE		EXPLOITING	۲ ۸ ۲۷	PERSISTENCE	57
No evenicioue activity d		Runtime Environment Starts Unknown Proce	esses	Uses Reg.exe To Modify The Windows Registry Creates An Autostart Registry Key Creates Temporary Files	

Figure 20: The Zscaler Cloud Sandbox detection for this Java-based backdoor.

Figure 21 shows the Zscaler Cloud Sandbox successfully detecting the HTA-based backdoor which contains the JsOutProx RAT.

Szscaler Cloud S	andbox				•
SANDBOX DETAIL REPORT Report ID (MD5): 23B32DCE9E3A7C1AF45	534FE9CF7F461E	High Risk Moderate Risk Low Risk Analysis Performed: 06/05/2020 11:28:45			File Type: htm
CLASSIFICATION		VIRUS AND MALWARE		SECURITY BYPASS	55
Class Type Malicious Category Malware & Botnet	Threat Score	No known Malware found		Checks For Kernel Debuggers Executes Massive Amount Of Sleeps In A May Try To Detect The Virtual Machine Tr	
NETWORKING	53	STEALTH	53	SPREADING	
Uses Dynamic DNS Services Detected TCP Or UDP Traffic On Non- Performs DNS Lookups URLs Found In Memory Or Binary Data		 Disables Application Error Messages 		No suspicious activity detec	rted
INFORMATION LEAKAGE		EXPLOITING		PERSISTENCE	55

Figure 21: The Zscaler Cloud Sandbox detection for the HTA-based backdoor.

Conclusion

This threat actor has a specific interest in organisations located in India and the content of the emails indicates a good knowledge of topics relevant to each of the targeted organisations. The backdoors used in this attack are uncommon, such as JsOutProx, which has only been observed in the wild once before in December 2019.

The Zscaler ThreatLabZ team will continue to monitor this campaign, as well as others, to help keep our customers safe.

MITRE	ATT&CK	TTP	Mapping
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Tactic Technique Obfuscation Obfuscated Files or Information - T1027

Software Packing	T1045
Persistence	Registry run keys / Startup folder - T1060
Screen Capture	T1113
System Shutdown/Reboot	T1529
Mshta	T1170
File and Directory Discovery	T1083
Uncommonly Used Port	T1065
Windows Management Instrumentation	T1047

Indicators of Compromise (IOCs)

Hashes

23b32dce9e3a7c1af4534fe9cf7f461e - HTA file (JSOutProx)

0ac306c29fde5e710ae5d022d78769f6 – Java-based Backdoor

Network indicators

scndppe[.]ddns[.]net:9050

backjaadra[.]ddns[.]net:8999