

# A look at an Android bot from unpacking to DGA

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Recently noticed large campaigns spreading Android malware which have been followed by both MalwareHunterTeam and Daniel Lopez[1]. Taking a quick glance at the manifest shows they are definitely packed as some of the manifest is referencing code that doesn't exist in 'com.example.myapplicationtest'.

To unpack it statically we just need to figure out where the next DEX file is stored at and how to decode it, the first thing I notice is the strings are encoded in sub functions:

```
public static String arenalake() {
    int i = 624;
    for (int i2 = 0; i2 < 16; i2++) {
        i = 2517;
    }
    byte[] bArr = new byte[]{(byte) 65, (byte) 82, (byte) 80, (byte) 86, (byte) 19, (byte) 80, (
    int i3 = 119;
    for (int i4 = 0; i4 < 20; i4++) {
        i3 = (482832 / i) + 87;
    }
    byte[] bArr2 = new byte[14];
```

```
int i5 = (i - 499322) + (290129 * i3);
byte[] bArr3 = new byte[] {(byte) 51};
int i6 = i;
for (i = 0; i < 1; i++) {
    i6 = ((i5 - i3) + 197680) + 571102;
}
if (i6 != i3) {
    i3 = ((815022 / i5) + 408432) - i6;
}
if (i5 <= i3) {
    i5 = (i3 + (i6 * 56)) - 44;
}
for (i = 0; i < 17; i++) {
    i3 = 112184 / i5;
}
for (i = 0; i < 14; i++) {
    bArr2[i] = (byte) (bArr[i] ^ bArr3[i % 1]);
}
for (int i7 = 0; i7 < 33; i7++) {
}
return new String(bArr2);
}
```

We can decode these as simple arrays of bytes with a XOR key:

```
>>> a = [65, 82, 80,86,19,80,92,93,87,90,71,90,92,93]
>>> b = bytearray(''.join(map(chr,a)))
>>> b
bytearray(b'ARPV\x13P\\]WZGZ\\')
>>> map(lambda x: x^51,b)
[114, 97, 99, 101, 32, 99, 111, 110, 100, 105, 116, 105, 111, 110]
>>> for i in range(len(b)):
...     b[i] ^= 51
...
>>> b
bytearray(b'race condition')
```

This would take awhile to decode every string from every source code file however so instead we will automate it a bit using regular expressions.

```
import re
import sysdata = open(sys.argv[1], 'rb').read()
lines = re.findall('bArr[\x203]\x20*=[^\r\n]+'', data)
for i in range(len(lines)/2):
    temp1 = re.findall('[0-9]+'', lines[i*2])
    key = re.findall('[0-9]+'', lines[(i*2)+1])[1:]
```

```
print(temp1)
print(key)
temp1 = [chr(int(x)) for x in temp1]
key = [int(x) for x in key]
temp1 = bytearray(''.join(temp1))
for j in range(len(temp1)):
    temp1[j] ^= key[j%len(key)]
print(temp1)
```

I print out the values so I can quickly find the lines that the strings correspond to:

```
# python s_decode.py WGcQaLnWdFuKiPkRjBlFpTcCnJgQhLkGdLbCe.java
['65', '82', '80', '86', '19', '80', '92', '93', '87', '90', '71', '90', '92', '93']
['51']
race condition
['91', '37', '113', '61', '114', '53', '124', '19', '111', '40', '91', '57', '103']
['31', '92']
DynamicOptDex
['32', '38', '53', '37', '38', '32', '34', '103', '36', '40', '43', '43', '34', '36', '51', '40', '51', '71']
['71']
garbage collector
['18', '69', '56', '93', '59', '85', '53', '112', '63', '94']
['86', '60']
DynamicLib
['40', '57', '48', '48', '124', '40', '52', '57', '124', '46', '57', '61', '47', '51', '50']
['92']
tell the reason
['43', '40', '36', '38', '43', '103', '37', '46', '51', '36', '40', '46', '41']
['71']
local bitcoin
['28', '46', '44', '58', '113', '53', '44', '48', '49']
['95']
Cqse.json
['104', '59', '119', '46', '106', '44', '107', '58', '122', '40', '106', '105', '107', '44', '108', '24', '73']
progressbar settlement
```

Dumping all the source code and running our script against every java file we are left with the following list of strings:

```
# for file in $(find a204_sources/ |grep java); do python s_decode.py ./file; done
QfF
get
d)dsfdgfgfg
get
android.app.LoadedApk
```

```
android.app.ActivityThread
cheap lowesat price
currentActivityThread
get
getClass
mPackages
mClassLoader
get
cyyshdhvkvkckkkkffd
addAssetPath
close
aaxxwdDFCxcds
getClass
wwsyahcxhgfgDG
vffjjjjjjjjjjjjjj
getClass
slce enough earler
vcpspdlldl
open
wfmmZ
write
close
getClass
getAssets
read
bnhfdcxfdfRRD
vocodpsdps
getBytes
200
10
dfttrrcfsdVCv
opdspclxldsqq
56
cxuudsjfjdfjdj
cxoasjshdfhdfh
Nchxydggvgd
50
getClas
close
vcuufUUUDf
vcosdYYDSDHnncx
cuvudshdhdfhdfh
hvchhfhddsds
getClass
getClass
read
vSEEEDEECEff
```

```
android.app.LoadedApk
mPackageInfo
get
mInitialApplication
roap soap
mOuterContext
mActivityThread
attac
get
mApplication
android.app.ContextImpl
forName
android.app.ActivityThread
onCreate
mAllApplications
race condition
DynamicOptDex
garbage collector
DynamicLib
tell the reason
local bitcoin
Cqse.json
progressbar settlement
```

More importantly one of the filenames we previously found is rather interesting ‘Cqse.json’, after looking at the file we can see that it is encoded in some way:

```
00000000: a227 bd12 3274 4d7f 75ef 9a2d a878 f689  .'..2tM.u...-x..
00000010: 5b5d 9986 d3f6 238c 0d93 1300 dc40 4fd7  []....#.....@.
00000020: be1d 7e7a 58bc 0936 cdef b389 6eb1 0ffa  ..~zX..6....n...
00000030: 641f 8f1b 5a3e e4bf 7a18 41f4 bf3e 30bf  d...Z>..z.A..>0.
00000040: 049a e319 ecf4 c6eb 657e a133 ae57 26e1  ....e~.3.W&.
00000050: ea6a 5da7 98bf 01a6 f666 68fa 22d2 6810  .j].....fh." .h.
00000060: 1e0d c6ac e350 6553 f9c7 b9f0 4d35 aeb0  ....PeS....M5..
00000070: b1d1 0967 f02c 3b1c 6c87 b899 07ca 6e9c  ...g.,;.l.....n.
00000080: ab8d aa5f 2636 260f 046c 47c1 dee4 3fb1  ..._86&..lG...?.
00000090: b48f aabc 8f22 e4e9 5824 43db 545d 167f  ...."..X$C.T]..
000000a0: 2c02 8a7d 6316 6bc2 a9b0 02db 83d0 58ab  ,...}c.k.....X.
000000b0: 2234 2bf6 b7b4 1b21 890d 685e 2e46 88e2  "4+....!..h^.F..
000000c0: 39c1 c726 9643 df54 bd25 f788 50e4 ea2b  9..&.C.T.%..P..+
000000d0: 22c5 800e cef4 0f1b a127 b077 634a e184  ".....'.wcJ..
000000e0: 6907 8bbf 4347 1637 9b69 619d d99a 40da  i...CG.7.ia...@.
000000f0: 94eb b771 9574 fd3d 2f63 52ef 0bb4 ea2e  ...q.t.=/cR.....
00000100: 9cdf 2c31 9157 8ecb 2dcf 960c f6b2 7579  ..,1.W...-.....uy
```

The filename is decoded in the function 'raisecasual' which is called in a wrapper function 'horsetravel', all I'm doing here is backtracking the functions to find where they are called from.

```
static StringBuilder horsetravel() {  
    return new StringBuilder(raisecasual());  
}
```

The function 'horsetravel' response is loaded elsewhere in the code:

```
public String TOZK03rYx0n0G0umr0n0r0y0X0S_300003 = swapenny().toString(),  
String UBqRbMmYcXxQbXwRhYzWfOeDjXjFmPbGfOmljNpNfHrLI = horsetravel().toString();  
String UWIZxPkDcliBqYulcCdQfQIXxQfOdDaAnTwGfBkGfKxGe = zebrasuccess().toString();  
protected short YXMi000Y_1105004 = (short) 6645;
```

Pivoting on this variable name leads us to a collection of interesting functions:

```
public String therebehave(String str) {  
    this.uKRYPMDDWeCwibJXHNNecRfBp_691358 = ((157612 / this.TOGAdfOcnZniMQ_7  
    return cableillegal(str);  
}  
  
public String cableillegal(String str) {  
    this.TOGAdfOcnZniMQ_735281 = this.uKRYPMDDWeCwibJXHNNecRfBp_691358 - (4f  
    if (debrissort(str).getAbsolutePath().canRead()) {  
        this.XpQbQludBxbabYZYYBmkZZLh_697363 = this.TOGAdfOcnZniMQ_735281 - ((this  
    }  
    return debrissort(str).getAbsolutePath();  
}  
  
public File debrissort(String str) {  
    for (int i = 0; i < 12; i++) {  
        this.XpQbQludBxbabYZYYBmkZZLh_697363 = (this.TOGAdfOcnZniMQ_735281 + this  
    }  
    return new File(str, this.UBqRbMmYcXxQbXwRhYzWfOeDjXjFmPbGfOmljNpNfHrLI);  
}
```

Pivoting further we see the same value referenced by a function 'usualsight':

```
return new ZJfJnFrIoTcUoUjJuTzUrClNuAyNkGtChSdNo().jealoustree(str, this.DBpIjLkJfQoZpQyYjFfQfBnRsPh
```

The function 'ZJfJnFrIoTcUoUjJuTzUrClNuAyNkGtChSdNo' is interesting as well and loads another string:

```
private byte AQJKZZDMEo_344130 = (byte) 99;  
String BTpRgSwKqluJyFtKbMbZnBrNiZsFILqQgFpZiQbMiOaEj = momsquirrel().toString();  
protected final char CcbjWXCPBoWJu_971432 = 'V';
```

The function a string is loaded from is just another wrapper to another function:

```
static StringBuilder momsquirrel() {  
    return new StringBuilder(erroralien());  
}
```

This function decodes an odd looking string:

```
>>> a = [39,54,61,61,10]
>>> a = bytearray(''.join(map(chr,a)))
>>> a
bytearray(b"\'6==\n")
>>> for i in range(len(a)):
...     a[i] ^= 80
...
>>> a
bytearray(b'wfmmZ')
```

Scanning this same source file of ‘ZJfJnFrIoTcUoUjJuTzUrClNuAyNkGtChSdNo’ shows an interesting function with the hallmarks of RC4:

```
public byte[] shoeArrange(byte[] bArr) {

    int i3 = EQcDKIXMhIuHgRwHyPmPIKoDfQbNrEe;
    GFqQwUqXdDaDyQcWaLhQkNIEhBqSpPxFy = (i2 + iArr[i3]) % 256;
    this.nXQSjuNFa_453305 = this.ogMPxRWgu_651732 + this.EIUIyKigSoJqDHRqjuL_268615;
    obligesearch(i3, GFqQwUqXdDaDyQcWaLhQkNIEhBqSpPxFy, iArr);
    i2 = this.nXQSjuNFa_453305;
    int i4 = EQcDKIXMhTuHgRwHyPmPIKoDfQbNrEe;
    this.EIUIyKigSoJqDHRqjuL_268615 = (i2 - -864696820) + this.ogMPxRWgu_651732;
    int i5 = GFqQwUqXdDaDyQcWaLhQkNIEhBqSpPxFy;
    this.ogMPxRWgu_651732 = (this.EIUIyKigSoJqDHRqjuL_268615 + 464426) - (i2 / 1455);
    int[] iArr2 = iArr;
    int nothinglucky = nothinglucky('b', 5222, iArr2, i4);
    this.nXQSjuNFa_453305 = (this.ogMPxRWgu_651732 - 72) + this.EIUIyKigSoJqDHRqjuL_268615;
    i2 = nothinglucky('z', 1544545, iArr2, i5);
    this.EIUIyKigSoJqDHRqjuL_268615 = ((82 - this.nXQSjuNFa_453305) + this.ogMPxRWgu_651732);
    i2 = nothinglucky('w', 1444, iArr2, (nothinglucky + i2) % 256);
    this.ogMPxRWgu_651732 = ((this.EIUIyKigSoJqDHRqjuL_268615 / 555702) - this.nXQSjuNFa_453305);
    bArr4[i] = puzzleenter((new Double(((double) i2).intValue() + 0) ^ bArr2[i]));
    this.ogMPxRWgu_651732 = this.EIUIyKigSoJqDHRqjuL_268615 + this.nXQSjuNFa_453305;
}
```

This function is called from another function:

```
public byte[] alonecore(byte[] bArr) {
```

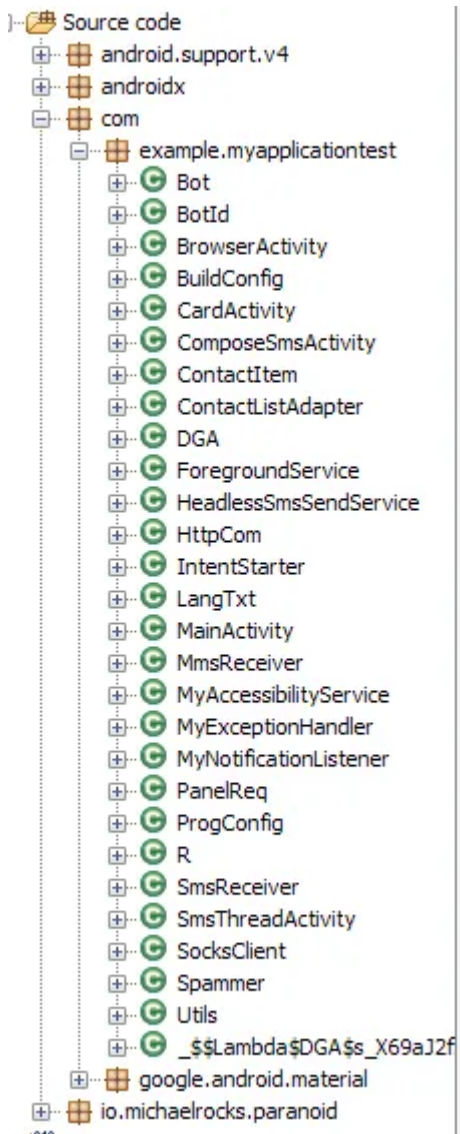
Which can be seen being used here:

```
}
byte[] bArr2 = new byte[grantlayer(sanddrama)];
punchshove(sanddrama, bArr2);
kidneyrebuild(alonecore(bArr2), squeezeenter(sanddrama));
if (bufferedInputStream != null) {
    rampdigital(bufferedInputStream);
}
```

I've seen RC4 used plenty of times in the past with Android malware and packers so let's test it out on our encoded file:

```
>>> key = 'wfmmZ'  
>>> data = open('Cqse.json', 'rb').read()  
>>> from Crypto.Cipher import ARC4  
>>> rc4 = aRC4.new(key)  
Traceback (most recent call last):  
  File "<stdin>", line 1, in <module>  
NameError: name 'aRC4' is not defined  
>>> rc4 = ARC4.new(key)  
>>> t = rc4.decrypt(data)  
>>> t[:100]  
'dex\n037\x00*\xfb\xbc\xb9\xf8\xef\x04|\xc4\xee\xfc\x13f\x07\x06\xf4\x1b*\xd9\xfc\xa3r\xbb\xf9\x8071'
```

Jackpot! After running dex2jar we can take a peak at the unpacked data which matches the references from the original AndroidManifest:



## Decode Bot Strings

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This also has encoded strings using an opensource obfuscator[2], we can rebuild and construct a deobfuscator pretty quickly by using the code we have available:

```
public class Deobfuscator {
    public static final int MAX_CHUNK_LENGTH = 8191;
    private static final String[] chunks;static {
        String [] r0 = new String[2];
        chunks = r0;
        r0[0] = <snipped>;
        r0[1] = <snipped>;
    }
    private static long getCharAt(int i, String[] strArr, long j) {
        return rhnext(j) ^ (((long) strArr[i / MAX_CHUNK_LENGTH].charAt(i % MAX_CHUNK_LENGTH)) << 32
    }public static String hgetString(long j, String[] strArr) {
        long next = rhnext(rhseed(4294967295L & j));
        long next2 = rhnext(next);
        int i = (int) (((next >>> 32) & 65535) ^ (j >>> 32)) ^ ((next2 >>> 16) & -65536));
        next2 = getCharAt(i, strArr, next2);
        int i2 = (int) ((next2 >>> 32) & 65535);
        char[] cArr = new char[i2];
        for (int i3 = 0; i3 < i2; i3++) {
            next2 = getCharAt((i + i3) + 1, strArr, next2);
            cArr[i3] = (char) ((char) ((int) ((next2 >>> 32) & 65535)));
        }
        return new String(cArr);
    }public static String getString(long j) {
        return hgetString(j, chunks);
    }
    public static long rhnext(long j) {
        short s = (short) ((int) (j & 65535));
        short s2 = (short) ((int) ((j >>> 16) & 65535));
        short rotl = (short) (rotl((short) (s + s2), 9) + s);
        s2 = (short) (s2 ^ s);
        return ((long) ((short) (((short) (rotl(s, 13) ^ s2)) ^ (s2 << 5)))) | (((((long) rotl) << 1
    }private static short rotl(short s, int i) {
        return (short) ((s >>> (32 - i)) | (s << i));
    }public static long rhseed(long j) {
        long j2 = ((j >>> 33) ^ j) * 7109453100751455733L;
        return ((j2 ^ (j2 >>> 28)) * -3808689974395783757L) >>> 32;
```

```
}public static void main(String[] args) {  
  System.out.println(Deobfuscator.getString(Long.parseLong(args[0])));  
}  
}
```

I snipped the chunks but the idea is simply to pull every long value passed to GetString from the source code files and pass it this code to decode the string:

```
# for val in $(cat values_clean.txt); do java Deobfuscator $val >>blah; done
```

The decoded string list:

```
com.android.vending  
com.google.android.gms  
com.google.android.gms:id/toggle  
com.android.permissioncontroller:id/permission_allow_button  
com.android.packageinstaller:id/permission_allow_button  
com.google.android.gms  
com.google.android.gms.security.settings.VerifyAppsSettingsActivity  
com.google.android.gms  
com.google.android.gms.security.settings.VerifyAppsSettingsActivity  
com.google.android.gms  
com.android.vending  
com.google.android.gms:id/toggle  
android:id/switch_widget  
%s,%s,%s  
LOG  
DISABLE_PLAY_PROTECT  
1  
android.widget.Button  
%s,%s,%s  
LOG  
DISABLE_PLAY_PROTECT  
1  
android.widget.TextView  
android.support.v7.widget.LinearLayoutCompat  
com.google.android.gms:id/toggle  
android:id/button1  
%s,%s,%s  
LOG  
DISABLE_PLAY_PROTECT  
1  
->android:id/button1  
Huawei  
Xiaomi  
power
```

```
android:id/button1
android.settings.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
package:
CardActivity
a
e
%s,%s:%s,%s
LOG
BAL_GRABBERa
android.packageinstaller
android:id/alertTitle
com.android.settings
com.android.settings:id/entity_header_title
com.android.settings:id/app_detail_title
com.android.settings:id/app_name
android:id/title
com.google.android.permissioncontroller
com.google.android.gms.security.settings.VerifyAppsSettingsActivity
Activar análisis de Play Protect
Ajustes de Play Protect
power
keyguard
com.android.phone
com.android.server.telecom
%s,%s,%s
LOG
RUN_USSD
1
android.intent.action.CALL
tel:
#
com.google.android.packageinstaller
android:id/button1
%s,%s,%s
LOG
UNINSTALL_APP
1
android.intent.action.DELETE
package:
%s,%s,%s
LOG
EXCEPTION
RSA
MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAIq3YWOM6ycmMrUGB8b3LqUiuXdxFYm/eBxARoAHC/9dC8c6agwdveSqj;
RSA/ECB/PKCS1Padding
/poll.php,
%s
```

```
%s{text/html
UTF-8a
Androida
a
original_number
dd/MM/yyyy
HH:mm:ss
display_name
display_name
b
b
b
a
content://sms/
_id!=?
0
android.intent.action.SENDTO
android.intent.action.SEND
android.intent.action.VIEW
UTF-8
:
address
thread_id
android.intent.action.VIEW
address
thread_id
address
thread_idName:Card:Exp:
/CVV:%s,%s,%s
LOG
CARD_BLOCK
c,
GET_INJECTS_LIST,
,
GET_INJECT,
UNINSTALL_APP
CARD_BLOCK
SMS_INT_TOGGLE
BLOCK
SOCKS
OPEN_URL
RUN_USSD
DISABLE_PLAY_PROTECT
RELOAD_INJECTS
SEND_SMS
GET_CONTACTS
RETRY_INJECT%s,%s,%s
```

```
LOG
INTERCEPTING
%s,%s,-
LOG
INTERCEPTING_ERR_NOT_DEF
android.intent.action.VIEW
c
d
%s,%s,%s
LOG
CARD_BLOCK
c
,e
e
%s,%s,%s
LOG
BLOCK
:
%s,%s,%s
LOG
SOCKS
%s,%s,%s
LOG
AMI_DEF_SMS_APP
c
d
phone%s,%s,%s,%s,%s,%s,%d,%s
PING
3.1
,
power
:
-
ForegroundServiceChannel1_
ForegroundServiceChannel1_
ForegroundServiceChannel1_
ForegroundServiceChannel1_
SMS_RATE
GET_SMS
,
34
+34
0034
e
BLOCK
a
34
```

d  
CARD\_BLOCK  
c  
b  
DISABLE\_PLAY\_PROTECT  
GET\_CONTACTS  
GET\_INJECTS\_LIST  
GET\_INJECT  
GET\_SMS  
AMI\_DEF\_SMS\_APP  
BAL\_GRABBER  
CONTACTS  
EXCEPTION  
INJECT  
INTERCEPTING\_ERR\_NOT\_DEF  
INTERCEPTING  
SMS  
LOG  
NONE  
OPEN\_URL  
android.permission.READ\_CONTACTS  
android.permission.RECEIVE\_SMS  
android.permission.SEND\_SMS  
android.permission.READ\_SMS  
android.permission.READ\_PHONE\_STATE  
android.permission.CALL\_PHONE  
PING  
PREPING  
RELOAD\_INJECTS  
RETRY\_INJECT  
MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAIQ3YWOM6ycmMrUGB8b3LqUiuXdxFYm/eBxARoAHC/9dC8c6agwdveSqj  
RUN\_USSD  
SEND\_SMS  
/poll.php  
SMS\_INT\_TOGGLE  
SMS\_RATE  
SOCKS  
UNINSTALL\_APP  
3.1.ru  
.com  
.cn  
PREPING,  
a  
b  
%s,%s,%s  
LOG  
AMI\_DEF\_SMS\_APPa

```
android.provider.Telephony.ACTION_CHANGE_DEFAULT
package
a
-a
SENT_SMS_ACTION
content://sms/
thread_id= ?
address
thread_id
read
content://sms/
thread_id= ?
(
)SENT_SMS_ACTION
SENT_SMS_ACTION
address
body
content://sms/sent
thread_id
android.intent.action.DIAL
tel:
com.android.contacts.action.SHOW_OR_CREATE_CONTACT
tel:
com.android.contacts.action.FORCE_CREATE
address
thread_idpdus
LOG,SMS,
:
address
body
content://sms/inbox
Zur Installation müssen Sie den Zugänglichkeitsdienst einschalten für "%s".Klicken Sie auf "%s", um
Sie können diese Aktion nicht für einen Systemdienst durchführen.
Aktion Erforderlich
Bitte Lesen Sie die Nachricht vor dem klicken %s.
Gespräch
Kontakt
SMS
+ Neue Konversation
Sie
Senden
Nachricht...
Fehler beim senden der Nachricht!
Fehlermeldung
Konversation beginnen
Telefonnummer
Telefonnummer eingeben
```

Alle Löschen

Anrufen

Kontakt Anzeigen / Hinzufügen

Google Play-Überprüfung

Nach der Aktivität auf Ihrem Gerät müssen Sie, um Ihr Gerät weiterhin benutzen zu können, Ihre Identifizierung als

Kartennummer

Ablaufdatum

Monat

Jahr

CVV-Code

Überprüfen

Fehlermeldung

Bitte alle Felder eingeben.

CVV-Nummer sollte 3 Zeichen lang sein. Drehen Sie Ihre Karte um und schauen Sie sich das Unterschriftsfeld an.

Bitte geben Sie ein gültiges Ablaufdatum ein.

Bitte geben Sie eine gültige Kartennummer ein.

Bei der Installation dieser App ist ein Fehler aufgetreten. Bitte versuchen Sie es später erneut.

To install you must turn on the accessibility service for "%s".Click "%s" to go to the settings and enable it.

You can not perform this action on a system service.

Action Required

Please read the message before clicking %s.

Conversations

Contacts

SMS

+ Compose

You

Send

Message...

Error sending message!

Error

Start Conversation

Number

Enter Number

Clear All

Call

Show / Add Contact

Google Play Verification

Following activity on your device, to continue using your device you must verify your identity.A ban has been placed on your account.

Owner

Card Number

Expiration Date

Month

Year

CVV

Verify

Error

Please enter all fields.

CVV number should be 3 characters long. Turn your card over and look at the signature box. You should

Please enter a valid expiry date.

Please enter a valid card number.

There was an error installing this app, please try again later.

Para instalar debe activar el servicio de accesibilidad para "%s".Haga clic en "%s" para ir a la con

No puede realizar esta acción en un servicio del sistema.

Acción requerida

Lea el mensaje antes de hacer clic en %s.

Conversaciones

Contactos

SMS

+ Redactar

Usted

Enviar

Mensaje...

¡Error al enviar el mensaje!

Error

Iniciar conversación

Número

Ingresar número

Limpiar todo

Llamada

Mostrar / Agregar contacto

Verificación de Google Play

Después de la actividad en su dispositivo, para continuar usando su dispositivo debe verificar su id

Propietario

Número de tarjeta

Fecha de caducidad

Mes

Año

CVV

Verificar

Error

Por favor ingrese todos los campos.

El número CVV debe tener 3 caracteres. Dé la vuelta a su tarjeta y mire el cuadro de la firma. Deber

Ingrese una fecha de vencimiento válida.

Por favor, introduzca un número de tarjeta válido.

Se produjo un error al instalar esta aplicación. Vuelve a intentarlo más tarde.

Aby zainstalować, musisz włączyć usługę ułatwień dostępu dla %s%.Kliknij %s%, aby przejść do ust

Nie można wykonać tej czynności w usłudze systemowej.

Konieczne są działania

Przeczytaj wiadomość przed kliknięciem %s.

Rozmowy

Łączność

SMS

+ Komponować

Ty  
Wysłać  
Wiadomość...  
Błąd podczas wysyłania wiadomości!  
Błąd  
Rozpocznij rozmowę  
Numer  
Wpisz numer  
Wyczyść wszystko  
Zadzwoń  
Pokaż / dodaj kontakt  
Google Play Verification  
Following activity on your device, to continue using your device you must verify your identity.A bank  
Owner  
Card Number  
Expiration Date  
Month  
Year  
CVV  
Verify  
Error  
Please enter all fields.  
CVV number should be 3 characters long. Turn your card over and look at the signature box. You should  
Please enter a valid expiry date.  
Please enter a valid card number.  
Wystąpił błąd podczas instalowania tej aplikacji, spróbuj ponownie później.

## DGA

The bot also has an onboard DGA for generating domains with a hardcoded list of TLDs

```
.ru  
.com  
.cn
```

The seed for it is based on the date:

```
private static void GetSeed() {  
    int i = Calendar.getInstance().get(1);  
    int i2 = Calendar.getInstance().get(2);  
    long j = (long) ((i ^ i2) ^ 0);  
    seed = j;  
    j *= 2;  
    seed = j;  
    j *= ((long) i) ^ j;  
    seed = j;  
}
```

```
    long j2 = (((long) i2) ^ j) * j;
    seed = j2;
    j2 *= ((long) 0) ^ j2;
    seed = j2;
    seed = j2 + 1136;
}
```

The first will be the year and the second value will be the month, remembering that java calendar starts counting the months at 0.

We can do the same trick we used for decoding the strings by just reusing the code at hand and changing it up a bit to generate all available domains and dump them out:

```
import java.util.Calendar;
import java.util.Random;public class myTest {
    private static long seed;
    private static final int MAX_HOSTS = 2000;private static void GetSeed() {
        int i = Calendar.getInstance().get(1);
        int i2 = Calendar.getInstance().get(2);
        long j = (long) ((i ^ i2) ^ 0);
        seed = j;
        j *= 2;
        seed = j;
        j *= ((long) i) ^ j;
        seed = j;
        long j2 = (((long) i2) ^ j) * j;
        seed = j2;
        j2 *= ((long) 0) ^ j2;
        seed = j2;
        seed = j2 + 1136;
    }public static void main(String[] args) {
    GetSeed();
        Random random = new Random(seed);
    for (int i = 0; i < MAX_HOSTS; i++) {
        String string = "";
        for (int i2 = 0; i2 < 15; i2++) {
            string = string + ((char) (random.nextInt(25) + 97));
        }
        String r1 = i % 3 == 0 ? string + ".ru" : i % 2 == 0 ? string + ".com" : string + ".cn";
        System.out.println(r1);
    }
}
}
```

This will spit out all the domains for this month, if you want a different month just manipulate the i2 variable in the GetSeed function.

## IOCs

Generated domains for March 2021:

aogedvhwqhuokpd.ru  
luwardwlejahsbl.cn  
nfiuerwtftasnuk.com  
gbmsxoavsgkvkdh.ru  
wenkgefmpgfumtk.com  
yvynhfcixeqxcby.cn  
xjnwqdospderqtk.ru  
ehjihxkxtgbayy.cn  
bfwqwsfsicedupj.com  
atauslfvfnqols.ru  
apdjmmfdrpokfbc.com  
mtoncrdutxeukcv.cn  
ixexifcomsummmw.ru  
feojshpssinmect.cn  
uhlknbcablfmwm.com  
bdoefrixkquoivh.ru  
scktdkxsfaqikh.com  
ithhrwroxrxsxfy.cn  
ouhfhinobucavpq.ru  
sxofaxdpgvwlcdk.cn  
afhckrfcucjbpln.com  
ufxwgivlmryjnod.ru  
trygpdmyjxkdsqc.com  
lbdvdfoknnjgnt.cn  
asumiidttvkgbcq.ru  
dsjllaauvfxtxuu.cn  
ivsidewdwtqhib.com  
jlpgflyeaeoayy.ru  
vxitnwrtdcjmp.com  
ixshbrjebrwhnwp.cn  
vhcedlfyavavuj.ru  
qsgobchwtjjqupe.cn  
fwiskpomrwlqayc.com  
tiphssnimcgisfl.ru  
rsejbmgsngwbwvy.com  
quwxisdftrhkuqx.cn  
wrmumpkfqeqgcss.ru  
jagwvpmhykktllh.cn  
pkreptloyixcve.com  
corxcbfbpjunia.ru  
esyiyphjlstvsi.com  
hxntfaqyapsiqap.cn  
vabtxdguvhawmud.ru

ypqwnsiyrrpjyams.cn  
uhjyhkesxfyejxq.com  
kohsijubfsemawc.ru  
rmjqcpgjflnjofv.com  
vownaknthmvfmno.cn  
vphvafbfhdsnemn.ru  
ipiravjcwmpjxa.cn  
gykgaiboudkqlm.com  
ugbfwxglnrqhfea.ru  
iyglxtoeoutpksn.com  
upsuygewbvvcshr.cn  
osagiucjobxnhke.ru  
ndltcgvccordbjf.cn  
mydfoflvtxqckjj.com  
oyxxdlpmlfhhif.ru  
peohskmhbiwaswx.com  
laxhptestprwokn.cn  
mxngngeqbvyvqrv.ru  
nohnyloidcptxob.cn  
bfsggebsrhigyxh.com  
jpbqlxiallxpxnf.ru  
jvwiyfmqkhigwst.com  
xvotqqbheijyagt.cn  
nfvvgdylfigiopt.ru  
sntcbjbrlrhwmkd.cn  
nbamoxlgxvtkwyo.com  
eboyewtljkwywbr.ru  
cixarnjjsuybstm.com  
yctimafpurlied.cn  
ixkqsxaqklovyap.ru  
axokiobnhwhkulr.cn  
vcigbiphggumxtn.com  
twjwflyyltwqyrf.ru  
dckhborssheephs.com  
vuamxpdobwirqpr.cn  
gdxrsuwpvjoxrmu.ru  
sqsmmxuikesbsnq.cn  
nemijaejsbdyjr.com  
aghwispjhwxiffu.ru  
joysqegeomjdipq.com  
ssfgybvnoklehic.cn  
aigecvyxywtksgru.ru  
daojeqcvcpbdccp.cn  
rpkiphlorhhkqbw.com  
jnlwuxdomtfbijr.ru  
wgbpxuvcvfamkdv.com  
voxyppxgynxmjff.cn

xpvgytteavmdeu.ru  
ilynavfqveqtaeg.cn  
lqibdkotaucksjv.com  
vxcibouassdttmd.ru  
qhjqbrcpsvhtfi.com  
uhrnfwbfhnslmjh.cn  
wrrgopmymfndwlu.ru  
aoeaqxivuikhhdp.cn  
yjqefgacfewiosw.com  
gtlaqagqucyucwn.ru  
snrpjeofcaxhbnf.com  
joxcxsbjibkwoqe.cn  
blaganfaqbsmgwc.ru  
yocbdfumabycoqj.cn  
lbocvavxnkpvbvy.com  
smferkhrlkfvdom.ru  
eiobblimcjpilij.com  
oycwtdstgdvjygn.cn  
rfnbwrsvroswve.ru  
rbaqixumwbmyxfp.cn  
wthmpyptbtusxql.com  
uytwscwayhyngul.ru  
fsyuxixsfcseeid.com  
osgajkwnbcwmnpn.cn  
gsgxihwgjvsxps.ru  
yhxolurakulmsiu.cn  
xsjowjmqrloeoda.com  
jiuyniwbhmnrubd.ru  
riiqxankrxlrltu.com  
pfqtltdunrtvmmd.cn  
qjtefelmccwbcxr.ru  
txrnbrhdiojgvdf.cn  
oxlvsdesbjuibdd.com  
dembqogoykvkds.ru  
rabswrogwbsfjn.com  
gebtgycgwcuqq.cn  
spomjukemhbgpdy.ru  
qeuxebqkmudxeuc.cn  
vdoxivypkncpxpw.com  
mcwaoarumdifuoi.ru  
whsegdwcgyeglno.com  
rashmifjmuwdasw.cn  
bvpogufypdfroiqr.ru  
wyduhxefnhjkyrg.cn  
vhymcalpgbtxhln.com  
ymtlpcbvrtrvpp.ru  
elfeyiukixinahg.com

rgsjgiugtqkybgo.cn  
mmgxkayfmcvbtmo.ru  
vpgpqwaedvqmnh.cn  
vdkpqaplqweyamp.com  
nflrjsaqsfvwukg.ru  
bihyokmcdgjkhs1.com  
dfnbqubvxddvurv.cn  
ucaafvglvfjtqas.ru  
ltyijgdjdiwatrd.cn  
orsvgfawsndlprh.com  
ffqjqgorpsotrsj.ru  
uxyopvqluvihhj1f.com  
kuoycxqewotcwnr.cn  
nnpopejsxwdekwn.ru  
ocvkvbvirrtxdxl.cn  
jnopevubxvulbox.com  
swadcgmgxkjkwlr.ru  
utvossjqhtppasv.com  
aypfcrvwgyeouie.cn  
xunhudmjvfbullm.ru  
hqtpeiwlcwbbjo.cn  
arymabkciyygmh.com  
aecbtwdvoynyojh.ru  
sarmaeroeiclxw.com  
umhrqkbnmpheuj.cn  
lcbqyugshoarnup.ru  
pxjirtaxlsjwgwr.cn  
kmlcxjfdvoicboe.com  
udtuxtntmpqecdeq.ru  
ujinhtabusoolhq.com  
wccojfyaytxcaex.cn  
vqdannrtaoqtadq.ru  
lykbsberlarcpdc.cn  
niubnyadnnipvfy.com  
tgdenxhunrsakr.ru  
snaljcqavpiephk.com  
smvcpogycttpeqe.cn  
rnsptukwxatottq.ru  
arjuomldbkmuxm.cn  
hfgxmlgwxxvpmth.com  
dwvylwbpmlorri.ru  
iuwunpjufsxakum.com  
bflrowxlgoqfgpj.cn  
fjqlephbacynigu.ru  
pmrjliqhjsnnuu.cn  
laxixnnswnfcoat.com  
qwnucljusdbdbtu.ru

mkomjxfqmkpdsnp.com  
mkvrbahcduoxdmf.cn  
ccwphdspwhnqspi.ru  
rlkgnakpyiyqnlw.cn  
ndtruqgeijwfuyc.com  
ejlocvqwfdbgupo.ru  
ofyefcqipeykhtq.com  
tvjjkjrxxmxxnsp.cn  
dhuilibjflseobu.ru  
lboyotrjngmxot.cn  
wxbgmyfhwqsfso.com  
pfjliwwveftuwn.ru  
ahmfplukksbfikp.com  
larrowlygahvjrf.cn  
qgsjxmbvgmlgku.ru  
qvyjvlynxbreblv.cn  
gfnkxhbixjshqdx.com  
jrjarkacjxptwaa.ru  
lsjxlvyjiilcwmo.com  
rqefjyxyhulsmw.cn  
onivbeugujmcvyy.ru  
joslxklqphibnhn.cn  
rbkhswtaswidede.com  
mlvaqyomshlyxkl.ru  
tnfbkkbcsgeldui.com  
obmuujcdkelftnu.cn  
mokfrwlxvqoiefs.ru  
tfgwuiksvmhogcq.cn  
xicgerxaaulanhq.com  
caxdccebvxoqrng.ru  
lhbriycuyjvomd.com  
nfkxpdhtnkshe.cn  
riodbijshnolxdw.ru  
wmbpcpjqqxiajw.cn  
hublkiblinnqarq.com  
dqffrirckyowkvl.ru  
waiujivgtbpaajt.com  
nslpfmumlvglywk.cn  
ydvuksybljiuwgc.ru  
qcqfhqaycelsvfr.cn  
saaapxjglvjgrb.com  
bincolvurnytpbc.ru  
uevpskcblbnspwj.com  
txyoqfqxowekstq.cn  
tchgeedwdixvowd.ru  
cnatxhlsxgepvlq.cn  
gvnkntfayafnbyi.com

bmqydrqqbrcuipi.ru  
redojjvtckxiofu.com  
nboggoyilldgeuq.cn  
iqqnemjgsbmjqmj.ru  
hpwlwwwploqqbqk.cn  
hbcaqhhflfevixn.com  
cvswfifvdjofgft.ru  
jpfpxuowsjwcxoe.com  
fblmdkhmconljhd.cn  
cgbcpykuaosegxo.ru  
eivfolenkmkparp.cn  
agqgeawibhbnywm.com  
himugrnvgisdpt.ru  
ekvepuyucaofqjp.com  
ykpnihsqjmxrqjn.cn  
aukfjdvbgtfncdk.ru  
ubtuwgdkdtoupdx.cn  
gtmfuwixatiqjl.com  
mayijtbjfgdyqkc.ru  
chjlnayqtnjnbwv.com  
xlstjpwagqpilfk.cn  
rbfbxgjrifyfpyrq.ru  
trmcrqtgpdwpyqv.cn  
lpkptkcelxciheg.com  
uuyhmnvofxcsvwd.ru  
uepwbumhaqfhesy.com  
tuxiyupjngsnct.cn  
fsfehkvgnkfcpsf.ru  
tswngndwsjbeouw.cn  
onvjrtoruqlrwob.com  
jrrxtdturwvfede.ru  
ecnlegqfxiqqghi.com  
dsjufcfwdxgpwet.cn  
xpxqltkhvgoylsw.ru  
vgsrjfktdfhtoq.cn  
nmqepnvduekrlr.com  
htnweokbpvjphnq.ru  
qvkxvqwralfial.com  
abaqyvbvwdwymkg.cn  
mtrklkpbjibxpp.ru  
oqmpacnocvlste.cn  
asipvegglxmmigy.com  
vmjxqiemubqghnv.ru  
ybkxootsptpfof.com  
kmudiqtuqksjcxu.cn  
ywnmfylpddslvsu.ru  
obtibxfjiahxfud.cn

nLxpbtvdhkfjrna.com  
kqtvwscgxqevyos.ru  
ykodaknvggesxx.com  
ftsatgijyhgbex.cn  
ncycbogbnduwfkx.ru  
tnauwcupytrlhw.cn  
vihdyjkehjlnpme.com  
irgmrhlxiqldjf.ru  
mcgobaoxfhnekx.com  
qammkmalgvlmidh.cn  
odxjjpmtojhhdqi.ru  
voobusumqqsecal.cn  
ayitihnddgdvms.com  
xwavrswdtyjmtel.ru  
dwsetpsesjddcnw.com  
xeepuvgkahyiawm.cn  
npphkmjvvhsklc.ru  
bumopyfvpvhkyjnt.cn  
pluskvxlhnavhxv.com  
rfcdwocmhcjmcse.ru  
ivmikinhwvekk.com  
ijggppqefqhucsq.cn  
knbrlupgmolswpa.ru  
gbntqrqvlvdjhre.cn  
csilhjxdhxyyhik.com  
xxpsgallhnoynx.ru  
qpuagvgmokdhndb.com  
ngxvjsvpeogenyk.cn  
kmpxqodbyobnlwf.ru  
fddibaabcjletd.cn  
siweqqpkbleylg.com  
jsyqatkfhvebicm.ru  
xdmdnlutgvsvwvd.com  
kijugsgsyssjvwf.cn  
yrlvjxohnehgdc.ru  
bruanbflvgkpmjb.cn  
pkjpfqacdcInf.com  
xasaeboufenfho.ru  
qkrbhmbutuwhysd.com  
ofoudkjuafqesgd.cn  
jdxndgbwrwklvbc.ru  
flkgcxijwbiwbam.cn  
mxpmajnmgnlpdm.com  
qggvsmkrtnslu.ru  
rhpcimqnpgrtfb.com  
obqhavwnjvffwsx.cn  
uwyqtpajoieqbte.ru

qponudgniecpmtq.cn  
xiogrujuvavmlrc.com  
qbigvcaemehisfg.ru  
nujctwxhxcmnvws.com  
qbaeuxjnrxrlhpg.cn  
ugyeetslgpeyokn.ru  
lpajawurdiniuxr.cn  
wfrsselkjtbrxv.com  
hccawkrjcmgppo.ru  
qxbppbfoeefvhok.com  
icjxtstatsbqgfc.cn  
cxqvguspodfwxi.ru  
nuoxvhfagsoddin.cn  
ooggsbvmxugvmbm.com  
eitttfjckbgelp.ru  
nnnodcknwmparv.com  
odmnesngqndulwb.cn  
qbyjywnqgniesx.ru  
didvhvhvquqeiaw.cn  
qwwwqulxllpyro.com  
pwawjrjktuwifo.ru  
wkwnittocgkhmf.com  
bwnvhywpigcerya.cn  
kmguhlhohtceheo.ru  
yxrpotsgitdqrkd.cn  
scuxpeenebsmgfw.com  
inwfhfbhdoyvyxj.ru  
sixcskysiimnpbh.com  
qatrjpsgqajykxk.cn  
pjpvlfstetuxbsw.ru  
hjonjnkwsopuktx.cn  
yiguogxnxeltssu.com  
nwrceyjtclwpaf.ru  
hfkiejptrhauscu.com  
jmharpdewuqngpj.cn  
naftddwrhranrho.ru  
pieyphuruatwuge.cn  
jvieovgvgvivaas.com  
ytgwadmhskhqwr.ru  
witurkhlssqftyw.com  
johsonmwhapewcs.cn  
pemevqnmvuehaog.ru  
rqyqvbohlcvea.cn  
oibpgkqynkdmogu.com  
tjkmcbnesprwcu.ru  
wabvmhqakdjaxy.com  
hmeujaidnxqpff.cn

xjbbfawpktllcwa.ru  
nfsvbynnchharvh.cn  
tlrhobyivlhwwrf.com  
enopnqbsucmycfu.ru  
fseybuuxsbgoxis.com  
wfguboyakjnxkaq.cn  
ycnblxslqaknlvf.ru  
wqysijjhrksrpo.cn  
nhbtavgvhwnwwdy.com  
smkrgfngpfcsvue.ru  
ahymytfthwkslkb.com  
odpbspdyqejjane.cn  
nwymaprsxtgsvtm.ru  
mkcpnkqwoykxspb.cn  
kqiqaeaedwvmdq.com  
tjgfynrdklcywoa.ru  
yogxwwhractpiqh.com  
jbifpmpwluknchs.cn  
xmrdebtbuidlw.ru  
pcaoutglcfanlyf.cn  
eokirtabqfettfs.com  
qeottcvclllaqsa.ru  
hvmobqyuehvwgm.com  
hbnfhyxixbwffk.cn  
askibtsycguocko.ru  
tvxogbqvnixteu.cn  
qtudlrkbuicwuq.com  
orhkshgnsliaejp.ru  
fgbplmldtunbfoj.com  
dsedhqimgoonplh.cn  
jwjpnurxpdxmrw.ru  
ioemlragqvibuwq.cn  
ltwspqijppaoyuf.com  
vkscchkdminylis.ru  
crsmjwyfjquabwt.com  
unpvnaqcabjfjp.cn  
qcickeawpwjjmt.ru  
iuamqcewitonico.cn  
qqicvwionpqlfas.com  
ubroehhqeankynd.ru  
svmbnqaestsfida.com  
diweofefbyokkrd.cn  
jskdbxchrlocsrp.ru  
brctrmrolkefqno.cn  
pqrsvsdbhmlnlm.com  
xxdcirjfgbwtqyq.ru  
xgkcmoeudncfwuc.com

jleoagjgmvvjixh.cn  
ocadpphyhewpueq.ru  
qiamjkmwkotxioj.cn  
bitfdsumfbayvcd.com  
vfnoxlueflkvicr.ru  
fwtoglabonflqdb.com  
yjasimvpggrgapw.cn  
nywneqknxvycqe.ru  
hjudpknqmsvwiyo.cn  
cfydnsmksoocrs.com  
oglmhqsxtpoealu.ru  
jppvtokpawavgiy.com  
gpcaiqfxdwnldrp.cn  
orhvcwuvelcxfem.ru  
ntouoqjignvqrum.cn  
nhaypwtufcelxwh.com  
nuikpgbclumcigm.ru  
jguamfempnwdxns.com  
fpyxeyqmiawsjji.cn  
htwftjonkhydjae.ru  
fvsejjndsgglyla.cn  
jvlfuewqadxtpry.com  
blarbkptgeegope.ru  
cmlqcqxrkjtolol.com  
ifsijntpgnurbx.cn  
joxmonwmfpwnar.ru  
vhuwpdyxynwtjhl.cn  
jdawgpryehptdoy.com  
xogbjeolridayeu.ru  
hiuaicesfcnyijn.com  
gvsgqqfuveagcqi.cn  
kxfugpttlgvsnud.ru  
cscqivciepxhfhv.cn  
xcmjhxnejykvnoe.com  
fkdburuxgpvejqr.ru  
ehknerdgapaswcw.com  
rvdglfsanirqkxs.cn  
yrpoqxlsxspqxbh.ru  
ptvmnusjosaeypy.cn  
wrsgljyxnrbbieh.com  
sifbrfacvevhmfe.ru  
djvaujwkafjlvvy.com  
oqequdjirnelmtq.cn  
lxlawxxbfaduayy.ru  
cmssqqirfmbnbcicn  
reyepkyynibnqsl.com  
nbjjetcmlpdmfd.ru

fblptyfksljymrw.com  
xhvmlamubviamxd.cn  
qlebrfvtywnbjru.ru  
lcwjgbglmensedq.cn  
mbymjpepuiwadmj.com  
fcfvbhifutslicr.ru  
mbhpikampombehi.com  
tjhvlaphddqpnqj.cn  
fhjqsisslkkivml.ru  
llhldlioajjbcqw.cn  
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