


Adware Disguised as Game, TV, Remote Control Apps Infect 9 Million Google Play Users

Appendix



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Indicators of Compromise:

SHA-256	Package Name	Label	Download Count
01568bdc539d40c58d9898d1743e29665f722ddc4f7644b1ceb317e783840a8f	com.ankanetwork.saturn	SPORT TV	10,000
016568ab1afbc7259bc47cf9894e8660b4d15cbd23093af46b577e8109407fa7	prado.parking.game.car3dsimulator	Prado Parking Simulator 3D	100,000
03122ade6371753933299d563bf26bcce3e54c1b467465bbf7a49dc9a6c13777	com.makinggames.worldtv	WorldTv	10,000
094498e08c3f6729890e38d6b385c41d467b04cac7b3479db151fdbcf2bcccc3	com.oceanox.dragons	TV WORLD	100,000
0acdf94540804f3aeac34c48b5e78f1d50a087a14c8d2c10ee2b86952108e813	com.wallpapersapps.number6	City Extremepolis	100
0af01e59c4cb8307a28fafc056c9490aea349a07b8e1142751877ad2a3331b11	com.argandev.broken	American Muscle Car	5,000
0e3c35eca1aaeb2aceeb0811fbba85e3d54e170c5c62d6131267f3d481a5ccbf	com.wallpapersapps.blanktableski	Idle Drift	1,000
0f20a034ebfb97a4b7f26331a3d82bf52e7e810ece9292ad99fcd465c563d749	com.wallpapersapps.vikingshield	Offroad Extreme	100,000
106742c828a43fc91c1213830f0b3f5088894b5c951e351c793b7a0565daebf8	remote.air.conditioner.aire.acondicionado.mando	Remote Control	100,000
1897024c52415a2adb936011d5d406620e8be6a72debd88fbfcdcea04359a62b	com.yinyang.koifish	Moto Racing	10,000
1c0c7f7f486576199704b10c9cd4a8c26a525611516f070fd4239f7a7d80afa7	tv.remote.control.universal.com	TV Remote	100,000

24a49a38caeb994855f556cfa0ad4ecc8f20efc12c13d30c2f16f72263618f84	tv.channels.of.thailand	สถานีโทรทัศน์แห่งประเทศไทย	1,000
2a203fc08f1a53ac636cefb8331bc8675d1b1265c9e5d770b8f0cc5b49583e92	air.conditioner.universal.remote	A/C Remote	1,000,000
2ad88aad40c3713b0268af9311799cc67ea62823eb4fb73eabae6c17950eeaab	com.wallpapersapps.snowelement	Bus Driver	100,000
2b57b66c43046ceb84aca04f45be19e40d293158bcb0ce0160cdaddfec9269d	donald.trump.whatsapp.stickers.joke	Trump Stickers	1,000
3ada30382cc1c6cbb6e4c787565543b14a948965343fa1a3f5cf466f78697ce6	love.whatsapp.stickers.safety	Love Stickers	1,000
3c9592449c361d41ba42f3a9e290b7f7a6784042b1590cc22605358fcd29d38	com.ankanetwork.plane.tatierra	TV EN ESPAÑOL	10,000
3d9853bfcfd15abc484a0d842d1e6c9fe00bb0e6e3ec9479916909e734bdfcd5	christmas.whatsapp.stickers	Christmas Stickers	5,000
3eb104d36b2b43e9759be23b4cbcd78c5efd7db678a660bfc0b66f29c4713205	com.calzadastyle.hipster.wallpapers	Parking Game	1,000
43da05d9e1337f669e4eec0763bb190bec5adf6cf219351657a65c9b3f124fd9	com.yinyang.tux	TV EN ESPAÑOL	50,000
56d55fa1d54c8ffa8d0cee2b54d91fe37f1e10c01879f3f541b6e507601af49f	mexico.en.el.mundial.de.rusia.com	TV IN SPANISH	1,000
57139f066f1b1ca5a37d0063e2d1a63a2b3829612513b79c01c965ecb13ba20a	us.moony.brasil.tv	Brasil TV	50,000
575a266d3d3d22c931b8702700ecdfe9863a5b3cdb8be2aad0fb72fbc8c2f417	com.ankanetwork.moon	Nigeria TV	5,000
57837c91bdb04fa6e6ddd1a1b26473722d98669b3f369091994f7b981f5fd9e5	regalo.sorpresa.suerte	WORLD TV	5,000
5a4cd649de4b48c784e576091549729ba2b13c4cea8ca25684202517c0a705a9	com.calzadastyle.wallpaperslove	Drift Car Racing Driving	5,000
63005cb24845b7482d26784d6e1dd8c76e3e501d51	com.brasiltv.channelwo	TV BRASIL	1,000

fb9e5be4e2f352f85dc64d	rld		
6774412d1f40ddc825c7e9e32ae0f408e2e68d8c601a9157024370f0b776dc36	com.laser.pointer.simulator	BRASIL TV	50,000
6c5872f31f3de48c9e53201bd6976512afb89dd05b164e21f591a4532a00ae97	mun.do.copa.brasil.russia.com	Golden Apps	10,000
6d2ba71beb402b5909a25b0b2c2ac11aae8f5b9841d1407844dded7e764bb5d8	com.ankanetwork.santahat	TV IN ENGLISH	1,000
6d749a8e14c26c2b031e19090cd75b31e2682d446a37a61ace658eddd617d8e7	com.calzadastyle.wallpapers.uhd	Racing in Car 3D Game	10,000
6e9ed2955d69afd8ba6beeb4221c76b18e43e0863b931dba0e2a1e8e371b0900	monster.truck.mustang.stunts	Mustang Monster Truck Stunts	5,000
6f02745623799386458262c71168b4b6c02cb99602f50a6a4e14a5e8688b9727	tdt.espana.televisiones.online.tvs	TDT España	50,000
6f9865c02cfda9da26c2e696d2fc47277e73b2286546209bb738dc69bdfc5544	corvette.driving.car.race	Brasil TV	100,000
700870ce2614aaa7857b40924ae1cca28628f232b42086535279d0bce7735e62	car.stunts.game.racing3d	Challenge Car Stunts Game 3D	1,000
70e8b81a514bc11fe856349742fc876a89f15df4992a9f2569e3f80a63783d58	com.newgame.newgamegold	Prado Car	10,000
747f906f25be08d2db9a92aec7fb5c34c59174dc93c85f643bba4d6f978462ce	us.com.camera.shooter	UK TV	10,000
767be376fe60c34c485f6bd00225666b60052ed5002171af34dc9a171af3f6d5	trompos.peonzas.trucos.manual	POLSKA TV	50,000
78a32530ba406c130ed407ea7f65a30769ce9fc067a314bbb98649fd5cca5dd1	universal.tv.remote.mando.distancia.television	Universal TV Remote	500,000
792d1167c69b276ab0d2932b7d0117d28386c0b436e0135c2cac55c8121d4c81	us.moony.driving.bus.simulator	Bus Simulator Pro	10,000

7c01711c33be1729fc7930bba84db0a0abe2cc8e483af67d4033e52447d8f3ee	us.moony.usa.tv	USA TV	5,000
81b5a2479c1c2b125fdcd4269b98ddb1d5a049a69c6fd526b7ff42d86b4a2870	com.japanviralapp.PhotoEditorCollageMakerLoveFrames	Photo Editor Collage	1,000
845009655c7ce450661491b41fb50b65564a6c884af8da72046e25517a6abdb3	us.moony.spanish.tv	Spanish TV	10,000
84e3ca847cf9a81678e46ea7329e1a63c8a1a48bc94acd04c8156864c5ecb941	besos.para.whatsapp.kisses.stickers.kiss	Kisses Stickers	5,000
8b5343d78e7ca85d0e22afc037e4f524586c4dbf1d5d07f4632de5aa596f5340	com.argandev.photo.effects.editorhd	Prado Parking City 3D	10,000
8d06c9159ce70dda0718b00b2f170fbca2c16bde088343d14da746d657351ef1	com.ankanetwork.saturn	SPORT TV	10,000
8e9b4fa77206e8123051edb98870e01eb769b7088e52e9b2ea29efa6c67076cf	com.gamedev.piratestory	Pirate Story	100
8eff605e93dd1247797a5020e271a273f4efc008c466d1197a2b0e73b331bee4	com.wallpapersapps.firerelement	Extreme Trucks	100,000
909776dfcd1c5bc93614a6bab49f0793113df713496ed534ae3c2a8a1a631c7f	canais.de.tv.brasil.televisaos.emissoras	Canais de TV do Brasil	100,000
941e98e95cef79968bd12981d1de0a5bc4895223dc127d8a509b38c59b509a82	com.makinggames.pradocar	Prado Car	10
94988801bbc97c093f41e42a0b37f9159cc3c2c5cf7fe4fd2f9bca00bd3e438b	es.el.legado.de.tibu	TV SPANISH	1,000
959858ffb9a90cb6f7feb5458ed1ae56aadd659790e932d8285563345de7ab59	social.media.all.in.one.redes.sociales	Ελλάδα Τηλεόραση	10,000
995f6ea91f1f34e9e587d196c6d79cb88deee69866277214f73c2ea0026d4597	classic.planes.simulator.aviones.clasicos	Canada TV Channels	1,000
9d0950f5ebacedb0255f760b35314e000c2d6d19639b458087768a111104132a	com.wallpapersapps.dragoonhelmet	Prado Parking	100,000

a7436d0b67d8cd0d6fee86883e9e12f7031f2f5db4ff39eb19075a55e0b8c6b1	racing.a3d.car.car3dracing	3D Racing	10,000
a9dfb6958838488105a2a0e3dadd9629e3c05d0ecc4475bd6722ff7de631c6a7	com.easy.tv.remote	TV Remote	5,000,000
aacb91e2a83cab76d4ddc102296d52631abb7179aecdfc735c63588a2fb7301	monster.truck.racing3dgame	USA TV	50,000
abe30c17b7128dfc736c7aeb65c62fe998c274fdc5eb90a9c411533cfe58f67	best.hairstyles.step.mejores.peinados.paso	GA Player	100
ae735a60bdbf0adc1f223fe961323d08803bbfb54cb5364b7d9a1427b4dc29db	com.gamedev.realdronesimulatorgame	Real Drone Simulator	1,000
b0cc446fe1fb6e2f18c19fe2b2377e91ae917624264fe9e60b478cf68b2e27f4	en.rainbow.loom.bracelets	PORTUGAL TV	50,000
b39ac96c97c7558a254b3982771c8e40fe311b11234c21269250e2e6cf2ff9e0	us.moony.sport.tv	SPORT TV	1,000
b7a999ab226d424fc2cd59babcafcc8ce6b0b1cc3626d8b7a723858ec733ab74	com.ankanetwork.love.frames	SOUTH AFRICA TV	10,000
ba86ca3ec7fc3599a844af6f232dd65c591ebd520f6759359e401a1a7d97c094	monster.truck.city.game3d	Monster Truck 3D	10,000
c229f5f3b8b8844a82abc2d4c5f1b47fe4b8ce91dfddc2679fa7d750e55aa184	es.contador.axe	ITALIA TV	10,000
c933ad322e89086d47c8b2afcb10dad1db2d384b4ef84a1e1aa178ea51fa84fe	Kenh.truyen.hinh.viet.nam	Vietnam TV	5
c9829027074f90e4acf5cf73fb303558be737b803ef8178dc003a3b15bfc4eaf	peliculas.stickers.movies.cinema.whatsapp	Movies Stickers	1,000
ca48eff1a35a7877aa28282dde94255c1281ce6972069c40f3f91acb97ef28d1	com.wallpapersapps.greenmonster	Police Chase	100,000
cab53c864339accfc7f0d175e34503c588c84dd29b1f96fcf554a5a104018fa1	com.goldapp.selfie.editor	South Africa TV	10,000
cdec38cff76ba9fc36d01a172cbfca544c3dbd67ddee	racingcar.game3d.cha	South Africa	5,000

68c971f7ed7f2322a71c	mpions	TV	
ceef9840685447a94b2e231caadfad5572b5ec8265e20b7521a4df4a9be1b8ac	garage.door.opener.remote	Garage Door Remote	100,000
d35e82c4ed240873fca3b98f0c7c37f83880ca2254bf7931f85e55d7c9cd32e	com.wallpapersapps.americanfootball	Racing Car 3D	100,000
e1637a6285d19d15b83b36b03b86003ba96a047778f1c024038cfc3019155112	com.japanviralapp.PhotoEditorLoveFrames	Photo Editor Love Frames	50,000
e18f00bd8db74c61f1a0c71cbe9ba2ba4917689145b5e118ccde11b49538303	com.oceanox.cyanogen	TV LIST	5,000
e5a53d11b613f8fec92347c1365ca084b800b0de631af59fe4f526d3605eeef	televisiones.de.colombia	TV Colombia	10,000
e91d1f7dc46885eda01f43b40752066bc23ac5d7a916b4e1b48f9b334cfd7f56	dev.calzadastyle.filemanager.explorer	Racing Car 3D Game	10,000
eb75dd5db0692981d3cda945028c3ad40daae5487020978b0f73ea223a0b43f5	com.ipworldtv.worldtvchannel	World Tv	100,000
ebcf95a876903392a9061430df4d3724b8338bc9eb3968a0ef44fe4271ea4287	fr.rainbow.loom.francais	FRANCE TV	50,000
edb54e0d2e096c8d39e1556c0edfe1415250f72c3641cad43193cec86c896de3	corazones.para.whatsapp.hearts.stickers	Hearts Stickers	100,000
edfd693f41df9a6d02bb11e3a18370fb408b5b3d72af68df0de1d6e8ff20533d	luz.vela.candle.light	РОССИЯ TB	10,000
f049b6f127bf298cbd3bdf0d8be8080d2361285934fb7e14eebfc75e1b677e4f	televisiones.del.mundo.world.tv.online	TV of the World	10,000
f4ad24809cda380e3e00c94c19aa2090316df68462a0415ad14f6538e2f35b6c	com.ankanetwork.jupiter	WORLD TV	10,000
f688c2bebf2878bd6389ce96e969fa2f7bf73d101a06cb2f8c1b0aed41d9b201	llamador.angeles.angels.caller	ESPAÑA TV	50,000
f6b3c5e779397225aaf1fc50a5560db9da698586eeef530823d90ddcd087a223	es.pulseras.gomas.telar	TV IN ENGLISH	100,000

f88507ac89fc6f300fa21101d62dfd6b692131d794bbda52e4b62e3cc0988b1c	drum.solo.rock.real.simulator	TV World Channel	100,000
fe94c6bba0590b6b3d9ec91bd6de3fef4f7b8f920c43149d3974d0ee799a8a34	com.challenge.truthordare	Televisão do Brasil	100,000
ff5037a14e38f2290346108e340137e1a57512608e477b078528a1a398053b5f	com.juego.jeroglificos	CHILE TV	10,000





Securing Your Journey to the Cloud

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