

# Android 13 Image

## DESCRIPTION

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An image of Android 13 was created using a stock Android image from Google. Several popular applications (apps) were populated with user data utilizing the capabilities of each individual app. The stock Android apps were also populated with user data.

All times listed in this document are yyyy-mm-dd / hh:mm.

All events prior to 2022-08-17 at 15:42 (UTC -0400) are in 24-hr, Central Daylight Time (UTC -0500).  
All events between 2022-08-17 at 15:42 (UTC -0400) are in 24-hr, Eastern Daylight Time (UTC -0400).  
All events on or after 2022-11-06 at 02:00 (UTC -0400) are in 24-hr, Eastern Standard Time (UTC -0500).

Some of the data available in the apps were sync'd with data that had been previously populated. Information about the previously populated data can be found in the documentation of the various images, which can be found at <https://thebinaryhick.blog>.

## PHONE INFORMATION

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Make:	Google
Model:	Pixel 5a
Storage:	128 GB
RAM:	6 GB
Carrier 1:	Google Fi
Phone Number 1:	919-579-4674
Carrier 2:	Visible
Phone Number 2:	910-303-0166
Serial:	1B031JEG500741
Wi-Fi MAC:	14:22:3b:f3:f1:67
BT MAC:	14:22:3b:f3:f1:66

## ANDROID VERSION INFORMATION

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Version:	13
Build:	TP1A.220624.014
Patch Level:	August 5, 2022
Kernel:	4.19.239-gf0caf26d8587-ab8714951 #1 Mon Jun 13 07:25:22 UTC 2022
Baseband:	g7250-00208-220623-B-875-9277
Passcode:	0731 (User 1)

## PROCEDURE

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1. The phone was reset to factory defaults by flashing a stock Android image to the device.
2. A Google Fi account was added in order to apply cellular service to the device.
3. The bootloader was unlocked.
4. Sixty-seven (67) non-stock apps were installed from the Google Play store and populated with user data based on each app's respective capabilities.
5. Stock Android apps were populated with user data based on each app's respective capabilities.
6. A second SIM (eSIM) was added to the phone.
7. Magisk, a rooting application, was added to the device in order to gain root level access to the operating system.

## GOOGLE ACCOUNT INFORMATION

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Email Address:           thisisdfr@gmail.com (default – added to device on 2022-08-16 at 15:35)

## NON-STOCK APP INFORMATION

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The non-stock apps that were loaded and tested are alphabetically listed below. Information about the app, including user interaction, is also listed. For media that is downloaded, received, or sent, descriptors are included in *(parentheses)*.

Name:                     AirGuard  
Version Number:        1.4  
Install Date:            2022-08-16  
Install Time:            16:11

Note:                    Manual scans were performed when the test AirTag was not near any iOS devices for over 20 minutes. Tag was never found.

Date	Time	Action

Name: AllTrails  
 Version Number: 15.8.0  
 Install Date: 2022-08-16  
 Install Time: 16:11

Username:

Note:

Date	Time	Action
2022-10-09	10:30	Started hike navigation at Bass Lake
	11:48	Stopped hike navigation at Bass Lake / added photo to hike
	11:49	Saved hike

Name: Apple Music  
 Version Number: 3.10.1  
 Install Date: 2022-08-16  
 Install Time: 16:12

Username: thisisdfr@gmail.com

Note: Account is part of a family account. Music playback via Android Auto is documented and denoted here in *italics*.

Date	Time	Action
2022-08-16	17:43	Login
2022-08-30	12:28	Started playback
		2Pac – To Live and Die in L.A.
		Skee-Lo – I Wish
		Ben Folds Five – Battle of Who Could Care Less
		Foo Fighters – Big Me
		Mobb Deep – Shook Ones, Pt II
		Public Enemy – Give It Up
		Barenaked Ladies – It's All Been Done
		Warren G – This D.J. (Feat OGLB)
		Stardust – Music Sounds Better with You (Radio Edit)
		808 State – Pacific 202

		Barenaked Ladies – Pince Me
		SWV – Right Here (Human Nature Radio Mix)
		The Flys – Got You (Where I Want You)
		Busta Rhymes – Put Your Hands Where My Eyes Can See
		Jamiroquai – Cosmic Girl
		Dishwalla – Counting Blue Cars
		DJ Jazzy Jeff & The Fresh Prince – Summertime
		Matchbox 20 – Push
		The Bucketheads – The Bomb! (These Sounds Fall Into My Mind)
		Stone Temple Pilots – Plush
		Guns N’ Roses – Civil War
		The Roots – What They Do
		Busta Rhymes & Zhane – It's a Party
	14:04	Stopped playback
2022-09-02	17:06	Started playback
		<i>Busta Rhymes – It's a Party</i>
		<i>Fun Lovin’ Criminals – The Fun Lovin’ Criminals</i>
	17:27	Stopped playback
2022-09-04	18:14	Started playback
		<i>Busta Rhymes – Woo Hah!!</i>
		<i>Veruca Salt - Seether</i>
		<i>Blahzay – Danger</i>
		<i>Eric B. &amp; Rakim – Don't Sweat the Technique</i>
		<i>The Verve – Bittersweet Symphony</i>
		<i>Gin Blossoms – Until I Fall Away</i>
		<i>Red Hot Chili Peppers – Scar Tissue</i>
		<i>Massive Attack – Angel</i>
		<i>Smashing Pumpkins – 1979</i>
		<i>Outkast – Da Art of Storytelling Pt 1</i>
		<i>The Replacements – Here Comes a Regular</i>
		<i>Dave Matthews Band – Crash Into Me</i>
		<i>Red Hot Chili Peppers – Californication</i>
	18:58	Stopped playback
2022-09-10	18:04	Start playback
		<i>Red Hot Chili Peppers – Californication</i>
		<i>Portishead – Glory Box</i>
		<i>Foo Fighters – This Is A Call</i>
	18:16	Playback stopped
	18:18	Playback started
		<i>LL Cool J – 4,3,2,1 (Remix)</i>
		<i>Blind Melon – No Rain</i>
	18:30	Playback stopped
2022-09-15	08:38	Playback started

		REM – Man On the Moon
		Portishead – Sour Times
		Jay-Z – Dead Presidents
		Lo Fidelity Allstars – Battleflag
		Soul Coughing – Circles
		Soul Coughing – Super Bon Bon (Propellerheads Remix)
		Collective Soul – The World I Know
		Red Hot Chili Peppers – Breaking the Girl
		Primitive Radio Gods – Standing Outside a Broken Phone Booth With Money in My Hand
		Nirvana – Smells Like Teen Spirit
		U2 – Stay (Faraway, So Close!)
		2Pac – Dear Mama
		Method Man – Release Yo’ Delf
		Republica – Ready to Go
		Green Day – Good Riddance (Time of Your Life)
		Local H – Bound for the Floor
		Hole - Malibu
		Outkast – ATLiens
	09:53	Stopped playback
2022-11-05	13:32	<i>Started playback</i>
		<i>Outkast – ATLiens</i>
		<i>Harvey Danger – Flagpole Sitta</i>
	13:39	<i>Stopped playback</i>
	13:46	<i>Started playback</i>
		<i>Craig Mack – Get Down</i>
		<i>Mazze Star – Fade Into You</i>
		<i>Oasis – Wonderwall</i>
	13:58	<i>Stopped playback</i>

Name: BeReal  
 Version Number: 0.59.2  
 Install Date: 2022-12-02  
 Install Time: 10:31

Note:

Date	Time	Action	Message
2022-12-02	10:33	Login	
		Posted picture	<i>Pixel 3 phone and mouse on desk/Ceiling fan</i>
	10:34	Posted comment to other party's post	My first BeReal
	10:37	Added caption to post	<i>(Pixel 3 phone and mouse on desk)</i> Wait, THIS is my first BeReal.
2022-12-05	12:00	Posted picture	<i>Laptop screen/Ceiling fan</i>
	12:01	Added caption to post	<i>(Laptop screen/Ceiling fan)</i> My second BeReal.
	12:02	Posted comment to other party's post	Nice. That looks familiar.
	12:04	Other party commented on post	<i>(Laptop screen/Ceiling fan)</i> Hey, I've seen that before.

Name: Brave  
 Version Number: 1.41.100  
 Install Date: 2022-08-16  
 Install Time: 16:12

Note: Brave was the default search engine

Date	Time	Action
2022-11-26	19:46	Typed "nhl.com" into address bar. Visited nhl.com
	19:50	Clicked story "Oilers score four straight in third period to defeat Rangers"
	19:52	Typed "starwars.com" into address bar. Visited StarWars.com
	19:55	Clicked on link "Andor   "Episode 11, Daughter of Ferrix" Episode Guide"
	20:00	Searched "the computer chronicles" in address bar (query was run through search.brave.com)

	20:04	Clicked on Wikipedia link from search results received at 20:00. Visited Wikipedia page for Computer Chronicles
	20:05	Opened new Private Tab
	20:08	Searched "Andor season finale" in address bar of Private Tab
		Clicked on results from Hollywood Reporter – visited hollywoodreporter.com article 'Andor Revealed a Path Forward for 'Star Wars''
2022-11-27	08:43	Opened second regular tab
	08:50	Typed "2022 FIFA World Cup Schedule" into address bar
	08:52	Clicked on result "Men's FIFA 2022 World Cup Schedule & Scores" on Fox Sports
	08:54	Opened second Private Tab
	08:57	Typed "nfl.com" into address bar. Visited nfl.com
	08:58	Clicked on link "Predicting Week 12 winners"
	09:11	Closed first Private Tab (Hollywood Reporter)
	09:13	Closed second regular tab (Fox Sports Men's FIFA 2022 Schedule)

Name: Burner  
 Version Number: 4.6.1  
 Install Date: 2022-08-16  
 Install Time: 16:12  
 Phone Number: 910-248-4781

Note: Name of number is "My Burner."

Date	Time	Action	Message
2022-12-01	12:16	Login	
	12:19	Created "My Burner" number	
	13:16	Sent message	You there?
	13:17	Received message	Yes. What number is this?
	13:18	Sent message	My burner number. Can you put it in your contact list?
	13:20	Received message	Yep. How many numbers do you have?
	13:21	Sent message	Three, at least. Too many.
	13:22	Received message	Four, though, right? Main, secondary, Burner, and Google Voice.
	13:24	Sent message	That sounds about right. Want to send me a picture?

	13:25	Received message	Sure. Give me a minute to find one.
	13:28	Received picture	<i>OG use of Cookies</i>
	13:30	Saved picture	<i>OG use of Cookies</i>
	13:31	Sent message	Got it. I'll send you one. Hang on.
	13:36	Sent picture	<i>No Soliciting</i>
	13:38	Received message	Nice. I'll call you. Standby.
	13:40	Incoming audio call	(1:36)
	13:44	Sent message	I'll call you in a second.
	13:46	Outgoing audio call	(1:45)
	13:51	Received message	Can you delete this message when you get it?
	13:52	Deleted message	(message received at 13:51)
	13:53	Sent message	I deleted it.

Name: Calculator (Sgallery)

Version Number: 10.3.6

Install Date: 2022-08-16

Install Time: 16:13

Note: Passcode was set to 1234

Date	Time	Action
2022-11-28	21:21	Set PIN
	21:23	Set custom recovery question (What is the name of your blog?) and answer (The Binary Hick)
	21:25	Moved picture to vault ( <i>Waffle House</i> ) (Encryption Mode)
	21:28	Moved picture to vault ( <i>Mariah</i> ) (Hidden Mode)



Name: Calculator Pro+  
 Version Number: 4.1.782  
 Install Date: 2022-08-16  
 Install Time: 16:13

Note: No action taken within app.

Date	Time	Action

Name: Clubhouse  
 Version Number: 22.08.09  
 Install Date: 2022-08-16  
 Install Time: 16:13

User Name: @thisisdeefer

Notes: Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 12 image. Asterisks indicate actions taken within direct messages

Date	Time	Action	Message
2022-08-16	18:26	Login	
2022-11-23	08:07	Sent message*	Are you here?
	08:09	Received message*	I am. Good morning!
	08:11	Sent message*	Have you watched any of the World Cup?
	08:12	Received message*	Of course. I'm watching Japan & Germany right now.
	08:14	Sent message*	Matches are decent this year.
	08:16	Received message*	Totally agree.
	08:19	Sent message*	Don't forget that we have to create a room, too.
	08:20	Received message*	Correct. We also can't delete messages here. Just report them.
	08:22	Created Room	<i>Android 13 Image Room</i>
	08:24	Received message	Made it.
	08:25	Sent message	Good. Don't really remember how this works. Lol.

	08:26	Received message	Yeah, I don't either.
	08:29	Sent message	I noticed I'm not getting notifications for messages received here. Are you?
	08:31	Received message	No, I am not. That's odd.
	08:33	Sent message	Oh well. On to the next app.
	08:46	Left room	

Name: CoverMe  
 Version Number: 2.8.71  
 Install Date: 2022-08-16  
 Install Time: 16:14

Username: thisisdfr@gmail.com  
 Phone Number: 704-702-6150

Date	Time	Action	Message
2022-11-30	21:23	Login	
2022-12-03	09:39	Received phone number	
2022-12-04	13:47	Sent message	Howdy!
	13:48	Received message	Geez. Another number?
	13:49	Sent message	Yep. This time from the western part of the state.
	13:51	Received message	I think we are only missing the mountains.
	13:53	Sent message	I'm out of fake calling apps so I think this is all we are getting.
	13:54	Received message	Totally fine. Ready for the next game?
	13:55	Sent message	You know it. Although, I'm getting ready to go generate location data, so I'll be listening in the car.
	13:57	Received message	That's better than nothing. It should be a good game.
	13:58	Sent message	Definitely. I'll send you a picture.
	14:00	Sent picture	<i>Sheets</i>
	14:01	Received message	Hmm. I didn't get it. I'll try to send you one. Hang on.
	14:03	Received picture	<i>Clippy</i>
	14:04	Sent message	Got it.
		Saved picture in vault	<i>Clippy</i>

	14:05	Received picture	I'll call you.
	14:07	Incoming audio call	(1:41)
	14:09	Sent message	Now I'll call you.
	14:10	Outgoing audio call	(1:51)
	14:13	Received message	Please delete this message after you read it. Thanks.
	14:14	Deleted message	(received at 14:13)
	14:15	Sent message	It's been deleted.
2022-12-04	14:58	Sent static location	
	15:02	Received static location	

Name: Discord  
 Version Number: 140.13 - Stable  
 Install Date: 2022-08-16  
 Install Time: 16:14

User Name: thisisdfir

Note: Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 10, Android 11, Android 12, iOS 13, and iOS 14 images.

Channel Name: Android Test Images

Date	Time	Action	Message
2022-08-16	18:15	Login	
2022-11-12	10:21	Received message in channel	Welcome back!
	10:22	Received message in channel	Been a long time, right?
	10:23	Sent message in channel	It certainly has. Lol.
	10:25	Sent message in channel	We can make this one quick I think.
	10:27	Received message in channel	I believe so.
	10:28	Sent message in channel	Let me find a picture
	10:29	Sent picture in channel	<i>YET</i>
	10:30	Received message in channel	Nice. Let me get one. Hang on.
	10:31	Received picture in channel	<i>No More Day Drinking</i>
	10:32	Saved picture in channel	<i>No More Day Drinking</i>

	10:33	Sent message in channel	I'm saving that one. Switch over to DMs?
	10:34	Received message in channel	Sounds good. Meet you there.
	10:40	Received DM	You here?
	10:41	Sent DM	Yeah. Gotta bounce for a bit, though. Be back.
	10:42	Other party reacted to message sent at 10:41	<i>Thumbs up emoji</i>
2022-11-14	19:00	Sent DM	Ok, I'm back.
	19:01	Received DM	That's quite the delay!
	19:02	Sent DM	Yeah, sorry about that.
	19:04	Received DM	No worries. Just started to wonder if you completely fell off.
	19:05	Sent DM	Nah. Just got sidetracked
	19:06	Received DM	I'll send you a picture.
	19:08	Received picture via DM	<i>Prime Minister's Phone</i>
	19:09	Sent DM	That is great! I'll send one. Hang on.
	19:12	Sent picture via DM	<i>Nightmare rectangle</i>
	19:13	Received DM	That's...true.
	19:14	Received DM	Please delete this message when you get it.
	19:15	Sent DM	I can't delete it. Only report it.
	19:16	Received DM	That's fine. I'll audio call you.
	19:17	Incoming audio call via DM	(~1:40)
	19:20	Sent DM	Now I'll call you.
	19:21	Outgoing audio call via DM	(~1:45)
	19:23	Received DM	I'll try the video call now.
	19:24	Incoming video call via DM	(~1:45)
	19:27	Sent DM	
	19:28	Outgoing video call via DM	(~1:31)

Name: Dust  
 Version Number: 6.5.1  
 Install Date: 2022-08-16  
 Install Time: 16:14

User Name: thisisdfr100

Note: No action taken in the app after login

Date	Time	Action	Message
2022-08-16	18:09	Login	

Name: Facebook Messenger  
 Version Number: 373.0.0.21.109  
 Install Date: 2022-08-16  
 Install Time: 16:20

Username: 919-579-4674

Note: \*\*denotes communication via secure messaging feature

Date	Time	Action	Message
2022-11-06	08:05	Sent message	Are you there?
	08:08	Received message	I am. I don't understand why the messaging history didn't carry over on your phone.
	08:09	Sent message	Neither do I.
	08:13	Received message	Oh well.
		Sent emoji	<i>ROFL emoji</i>
	08:14	Sent message	Nice avatar.
	08:15	Received message	Thought you'd like that.
	08:16	Reacted to message	<i>(Heart reaction) message received at 08:15</i>
	08:17	Sent message	I will send you a picture in just a moment.
	08:18	Other party reacted to message	<i>(Thumbs Up reaction) message sent at 08:17</i>
	08:20	Sent picture	<i>Teachable moment</i>

	08:21	Other party reacted to message	<i>(Laughing reaction) picture sent at 08:20</i>
	08:22	Received message	That is fantastic!!
	08:23	Sent message	I thought so, too.
	08:24	Received message	My turn.
	08:25	Received message	<i>Darkness my old friend</i>
	08:26	Sent message	Your timing with that picture is on-point.
	08:27	Received message	I thought so, too <i>(also grinning emoji)</i>
	08:29	Sent message	I'll audio call you.
		Saved picture	<i>Darkness my old friend</i>
	08:30	Outgoing audio call	(1:38)
	08:33	Received message	I'll audio call you now.
	08:34	Incoming audio call	(1:40)
	08:36	Sent message	Video call time.
	08:37	Outgoing video call	(1:27)
	08:39	Received message	Alright, I'll video call you now.
	08:40	Incoming video call	(1:28)
	08:41	Sent message	Over to secure chat.
	08:42	Sent message**	You over yet?
	08:45	Received message**	I am. Let's make this quick.
	08:46	Received message**	Here comes a picture
	08:50	Received picture**	<i>Autosave</i>
	08:51	Reacted to message**	<i>(Heart reaction) picture received at 08:50</i>
	08:52	Sent message**	That's very true. I'll send you one now.
	08:53	Sent picture**	<i>Shadow of death</i>
	08:55	Received message**	That's great. Where did you find that?
	08:56	Sent message**	Imgur I think. I can't remember.
	08:57	Sent message**	I'll audio call you momentarily.
	09:00	Outgoing audio call**	(~1:43)
	09:02	Received message**	Now I'll audio call you.
	09:03	Incoming audio call	(~1:50)
	09:05	Sent message**	Video call time.
	09:06	Outgoing video call**	(~1:30)
	09:08	Sent thumbs up**	
	09:09	Received message**	Delete this message.
	09:10	Deleted message**	<i>(Message received at 09:09)</i>
		Sent message**	Done.
	09:11	Received message	Can you delete this message?
	09:12	Deleted message	<i>(Message received at 09:11)</i>
2022-12-04	15:44	Sent static location	
	15:45	Received static location	
	15:46	Started sharing live location	

	15:49	Stopped sharing live location	
	15:50	Started receiving live location	
	15:53	Stopped receiving live location	

Name: Firefox  
 Version Number: 103.2.0  
 Install Date: 2022-08-16  
 Install Time: 16:15

Note: Google was the default search engine

Date	Time	Action
2022-11-27	09:26	Typed "nhl.com" in address bar. Visited nhl.com
	09:28	Clicked on link "Hurricanes defeat Flames, end skit at five"
	09:30	Opened new Private Browsing Tab
	09:31	Typed "the computer chronicles" in address bar in Private Browsing Tab. Google search for "the computer chronicles"
	09:33	Clicked on result for Wikipedia entry for The Computer Chronicles
	09:37	Opened second regular browsing tab
	09:38	Typed "star wars new series" in address bar in second regular browsing tab
	09:40	Clicked on link "Every Upcoming 'Star Wars' Series: All That you need to Know" result from IndieWire
	09:45	Opened second Private Browsing Tab
	09:48	Typed "nfl.com" in the address bar of second Private Browsing Tab. Visited nfl.com
	09:51	Clicked on link "Comanders DE Young (illness) downgraded to out"
	13:57	Closed first Private Browsing Tab (Wikipedia entry for The Computer Chronicles)
	13:59	Closed second regular browsing tab (Every Upcoming 'Star Wars' Series: All That you need to Know – IndieWire)

Name: FitBit  
 Version Number: 2.84.1.arm64-v8a.release  
 Install Date: 2022-08-16  
 Install Time: 16:15

Username: thisisdfr@gmail.com

Note: Data is sync'd automatically. Tracker is a Fitbit Versa 3. Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 11, Android 12, iOS 13, and iOS 14 images. Workouts are documented here.

Date	Time	Action
2022-09-17	14:43	Login
	14:46	Paired phone to Versa 3
	16:35	Put on Versa 3
	18:11	Connect Versa 3 to WiFi
2022-09-18	00:02	Took off Versa 3
	00:13	Put Versa 3 on
2022-09-23	18:42	Take Versa 3 off / put on charger
	22:18	Take Versa 3 off charger / put on
2022-09-30	12:31	Take Versa 3 off / put on charger
2022-10-01	10:37	Take Versa 3 off charger / put on
2022-10-02	17:45	Power off Versa 3

**Workouts**

Note: Heart rate is measured in beats per minute (BPM). Distance is in miles. Pace is in miles per minute. Time is mm:ss. Entries with \* indicate GPS data is available.

Date	Time (min)	Type	Distance (mi)	Pace	Calories	Steps	Avg Heart Rate
2022-09-21*	24:20	Run	3.07	7:54	365	4,264	165
2022-09-23*	23:00	Run	3.02	7:35	333	4,098	167
2022-09-24*	23:12	Run	3.03	7:39	342	4,177	164
2022-09-24	15:20	Walk	N/A	N/A	116	1,515	102



2022-10-02*	23:11	Run	3.03	7:38	347	4,156	169

**Daily Activity Metrics**

Note: Heart rate is measured in beats per minute (BPM).

Date	Steps	Resting Heart Rate	Distance (mi)	Calories	Sleep
2022-09-17	4,171	N/A	1.9	2,190	N/A
2022-09-18	5,041	58	2.3	2,167	7 hr 35 min 1 hr 7 min (nap)
2022-09-19	5,559	56	2.54	2,305	7 hr 31 min
2022-09-20	6,359	55	2.9	2,398	7 hr 25 min
2022-09-21	11,011	55	6.17	2,930	7 hr
2022-09-22	6,825	57	3.12	2,368	6 hr 47 min
2022-09-23	12,944	58	7.09	2,962	7 hr 14 min
2022-09-24	15,752	58	8.33	3,180	7 hr 59 min
2022-09-25	5,347	58	2.44	2,224	8 hr 2 min 1 hr 48 min (nap)
2022-09-26	8,216	57	3.75	2,479	7 hr 9 min
2022-09-27	7,263	55	3.32	2,486	6 hr 38 min
2022-09-28	5,149	55	2.35	2,303	7 hr 12 min
2022-09-29	5,417	56	2.47	2,412	6 hr 45 min
2022-09-30	960	56	0.44	1,842	7 hr 29 min
2022-10-01	4,389	56	2.00	2,176	N/A
2022-10-02	13,703	57	7.40	3,065	7 hr 28 min

Name: FitToFit  
 Version Number: 6.2.1  
 Install Date: 2022-08-16  
 Install Time: 16:15

Note: This app is designed to sync data from FitBit to Google Fit. Data is sync'd automatically every hour unless otherwise specified below. Sync'ing also occurs at midnight, local time. No activity occurred in app other than initial login.

Date	Time	Action
2022-09-17	16:52	Login

Name: Gab  
 Version Number: version 1  
 Install Date: 2022-12-04  
 Install Time: 12:02

User Name: @thisisdfr

Note: Application is installed as a web app. Install date/time represent time when the app was added to the home screen.

Date	Time	Action	Message
2022-12-04	12:05	Login	
	12:08	Sent message	You there?
	12:09	Received message	I am. Just wrapped the France/Poland game.
	12:11	Sent message	I was watching, too. I am surprised Poland got shut out.
	12:13	Received message	It looks like they added the ability to send images in the chat since we last used it.
	12:15	Sent message	I see that. Looks like you might be able to send any file.
	12:18	Received message	Want to send me a picture?
	12:21	Sent picture	<i>Concealed Carry</i>
	12:22	Received message	Nice. I'll find one to send you.

	12:26	Received picture	<i>Things Just Got Real</i>
	12:27	Saved picture	<i>Things Just Got Real</i>
	12:29	Received message	We can only delete messages we send. So, send me a message and then delete it.
	12:30	Sent message	Here is the message. I will delete it in a minute.
	12:31	Deleted message	(message sent at 12:30)
	12:32	Sent message	I deleted it.
	12:33	Received message	Good.

Name: GalleryVault  
 Version Number: 4.0.5  
 Install Date: 2022-08-16  
 Install Time: 16:16

Note: Passcode was set to 1234

Date	Time	Action
2022-11-008	20:21	Set passcode to 1234
	20:24	Added picture to vault ( <i>PULLSH</i> )
	20:25	Created subfolder "My Secret Stash"
	20:26	Added picture to subfolder "My Secret Stash" ( <i>Brisket Inside</i> )

Name: Garmin Connect  
 Version Number: 4.57.1  
 Install Date: 2022-08-16  
 Install Time: 16:15

Note: Workouts using the vivoactive 4 activity tracker are documented here.  
 Workouts contain associated GPS data.

Date	Time	Action
2022-09-03	16:40	Login
	16:41	Connect to vivoactive 4
	16:45	Connect to HealthSync app

	16:47	Put watch on (had been on charger during setup)
2022-09-08	10:05	Take watch off / put on charger
	12:36	Take watch off charger / put on watch
2022-09-12	20:21	Take watch off / put on charger
	22:36	Take watch off charger / put on watch
2022-09-17	14:40	Power off vivoactive 4

**User-Initiated Workouts**

Note: Heart rate is measured in beats per minute (BPM). Distance is in miles. Pace is in mm:ss per mile. Total Time is mm:ss. Avg Heart Rate is beats per minute (BPM). Workout activity contains GPS data.

Date	Time	Type	Distance	Pace	Calories	Total Time	Avg Heart Rate
2022-09-05	10:15	Running	3.07	7:41	364	23:36	166
2022-09-07	11:17	Running	3.06	7:42	363	23:33	167
2022-09-09	11:42	Running	3.10	7:43	360	23:57	165
2022-09-11	12:08	Running	3.09	7:41	345	23:45	162
2022-09-12	11:31	Running	3.09	7:37	353	23:30	164
2022-09-13	12:13	Running	3.06	7:27	339	22:49	162
2022-09-14	11:35	Running	3.12	7:25	345	23:10	162
2022-09-16	12:22	Running	3.10	7:28	339	23:09	160

**Daily Activity Metrics**

Note: Heart rate is measured in beats per minute (BPM). Body Battery is read “charged” (+) and “drained” (-).

Date	Steps	Heart Rate Range	Overall Stress	Body Battery	Sleep
2022-09-03	2,595	56 – 97	9	+60 / -5	N/A
2022-09-04	11,545	57 – 94	13	+43 / -52	8 hours 33 mins
2022-09-05	12,878	53 – 177	16	+65 / -60	8 hours 1 min
2022-09-06	8,349	51 – 98	15	+47 / -44	7 hours 54 mins
2022-09-07	12,280	52 – 180	21	+46 / -68	8 hours 33 mins
2022-09-08	5,259	52 – 108	22	+51 / -44	7 hours 59 mins
2022-09-09	14,862	52 – 178	22	+59 / -70	8 hours 8 mins
2022-09-10	6,280	50 – 89	19	+54 / -34	9 hours 26 mins
2022-09-11	13,209	51 – 174	20	+52 / -64	8 hours 13 mins

2022-09-12	13,141	52 – 176	22	+51 / -55	9 hours 20 mins
2022-09-13	12,202	53 – 175	20	+74 / -52	7 hours 43 mins
2022-09-14	12,762	53 – 172	21	+54 / -67	7 hours 25 mins
2022-09-15	5,475	52 – 91	18	+56 / -43	8 hours 21 mins
2022-09-16	13,589	52 – 169	22	+47 / -65	8 hours 15 mins
2022-09-17	204	55 – 79	17	+22 / -9	7 hours 41 mins

Name: Gettr  
 Version Number: 1.6.34  
 Install Date: 2022-12-01  
 Install Time: 13:57

User Name: thisisdfr

Note: 6 followers

Date	Time	Action	Message
2022-12-01	14:00	Login	
	20:58	Received message	You there?
	21:00	Sent message	I am. What are you doing?
	21:01	Received message	Nothing. Just catching up on some typing.
	21:06	Sent message	Same. Watching TV. Not much on, though. I might turn on a rerun.
	21:09	Received message	This app seems pretty basic. Not much here other than chats. Want to send me a picture?
	21:10	Sent message	Sure. Give a moment to find something.
	21:13	Sent picture	<i>Worked from home</i>
	21:15	Received message	Lol. That. Is. True.
	21:17	Sent message	Your turn.
	21:22	Received picture	<i>8 to 12 hours</i>
	21:24	Saved picture	<i>8 to 12 hours</i>
	21:26	Sent message	Send me a message so I can delete it.
	21:28	Received message	Here is your message. Please delete it when you get it.

	21:30	Sent message	Oh. I can only delete the messages I send.
	21:31	Received message	Then delete that one.
	21:33	Deleted message	(message sent at 21:30)
	21:35	Sent message	Deleted.

Name: Google Chat  
 Version Number: 2022.07.24.464936634.Release  
 Install Date: 2022-08-16  
 Install Time: 16:30

Username: thisisdfir@gmail.com

Note: App is not stock. Chat data may also be found in the Gmail sandbox.  
 Asterisk indicates message in Android 13 Test Space.

Date	Time	Action	Messages
2022-08-16	16:30	Login	
2022-11-15	19:35	Sent message	You here in Google Chat?
	19:36	Received message	I am. My history carried over. I wonder why yours didn't.
	19:37	Sent message	No clue. But you have photos and everything, right?
	19:38	Received message	Yep!
	19:39	Sent message	Odd. My history is on, too.
	19:40	Received message	Want to send me a picture?
	19:41	Sent message	Sure. Give me a minute.
	19:42	Sent picture	<i>Insure the Death Star</i>
	19:43	Received message	Lol. That is great!!
	19:44	Sent message	Have you never seen it before?
	19:45	Received message	Nope. Hang on and I'll send you a picture.
	19:46	Received picture	<i>Cheers to a bright morning</i>
	19:47	Reacted to message	(message received at 19:46)
	19:48	Sent message	Hahaha!! Some people. I'll audio call you.
	19:49	Outgoing audio call	(~1:30)
	19:52	Received message	Ok. I'll call you now.
	19:53	Incoming audio call	(~1:30)
	20:00	Sent message	I'll create a new space and add you to it.

	20:01	Created Space & added DFIR Two	Android 13 Test Space
	20:02	Received message*	I'm here. Looks like you were successful
	20:04	Sent message*	Good. Lol. I didn't really remember the work flow for it.
	20:05	Received message*	What other apps do we have in this folder?
	20:06	Sent message*	Just Slack. Do you remember your password?
	20:07	Received message*	Nope.
	20:08	Sent message*	I think I have it somewhere. Sit tight and I'll send you a picture.
	20:09	Sent picture*	<i>Boxer</i>
	20:10	Other party reacted to picture*	(orange heart emoji - picture sent at 20:09)
	20:11	Received message*	I'll send one. Give me a moment.
	20:12	Received picture*	<i>Burn a CD</i>
	20:13	Saved picture*	(picture received at 20:12)
	20:14	Received reply to message*	(message received at 20:12) I think that applies to both of us.
	20:15	Sent message*	Yeah, it does. Unfortunately. (smiley face emoji)

Name: Google Fit  
 Version Number: 2.84.1arm64-v8a.release  
 Install Date: 2022-08-16  
 Install Time: 16:16

Note: This is not a stock app. No actions were taken in the app, but data was imported into the app by FitToFit (Fitbit data), HealthSync (Garmin data) and WearOS.

Heart rate data during Fitbit & Garmin data generation was automatic and continuous. Heart rate data during WearOS data generation was manual unless workout was recorded.

Sleep data was generated automatically by the FitBit & Garmin apps while the respective trackers were worn. Sleep data was generated by the Sleep As Android app while wearing the TicWatch E3.

Workout data generated by the TicWatch E3 (WearOS) device is documented here. Some workouts were recorded automatically without user intervention. They are not documented here. Asterisks indicate GPS data is available

FitBit workout data is documented in the FitBit app. Garmin data is documented in the Garmin Connect app.

Date	Time	Action
2022-08-16	17:31	Login
2022-08-19	13:47	Take watch off charger (charging during initial setup)
	13:48	Put on watch
	21:48	Take watch off / put on charger
	22:42	Take watch off charger / put on watch
	22:45	Installed Sleep As Android on Watch
2022-08-20	21:30	Take watch off / put on charger
	22:51	Take watch off charger / put on watch
2022-08-21	16:34	Take watch off / put on charger
	22:26	Take watch off charger / put on watch
2022-08-22	20:51	Take watch off / put on charger
	22:26	Take watch off charger / put on watch



2022-08-23	20:29	Take watch off / put on charger
	22:41	Take watch off charger / put on watch
2022-08-24	21:00	Take watch off / put on charger
	23:05	Take watch off charger / put on watch
2022-08-25	21:06	Take watch off / put on charger
	23:05	Take watch off charger / put on watch
2022-08-26	20:46	Take watch off / put on charger
	22:27	Take watch off charger / put on watch
2022-08-27	14:23	Take watch off / put on charger
	22:58	Take watch off charger / put on watch
2022-08-28	20:29	Take watch off / put on charger
	23:25	Take watch off charger / put on watch
2022-08-29	20:03	Take watch off / put on charger
	22:17	Take watch off charger / put on watch
2022-08-30	09:19	Take watch off / put on charger
	09:47	Take watch off charger / put on watch
	21:04	Take watch off / put on charger
	22:35	Take watch off charger / put on watch
2022-08-31	19:40	Take watch off / put on charger
	22:50	Take watch off charger / put on watch
2022-09-01	20:15	Take watch off / put on charger
	22:35	Take watch off charger / put on watch
2022-09-02	20:23	Take watch off / put on charger
	23:24	Take watch off charger / put on watch
2022-09-03	16:43	Take watch off
	16:44	Powered off watch

**User-Initiated Workouts**

Note: Heart rate is measured in beats per minute (BPM). Distance is in miles. Pace is in mm:ss per mile. Time format for Total Time is mm:ss. Each workout has associated GPS data.

Date	Time	Type	Distance	Pace	Calories	Total Time	Avg Heart Rate
2022-08-29	09:06	Running	3.2	7:50	436	25:01	171
2022-08-30	10:17	Running	3.11	7:50	424	24:29	175
2022-09-01	11:34	Running	3.08	7:45	419	23:54	171
2022-09-03	10:08	Running	3.17	7:25	431	23:32	170

### Daily Activity Metrics

Note: Daily activity metrics are fed to Google Fit from multiple sources.

Date	Steps	Heart Points	Sleep
2022-08-16	2,838	12	N/A
2022-08-17	2,286	15	N/A
2022-08-18	240	0	N/A
2022-08-19	4,327	1	N/A
2022-08-20	5,086	1	22:50 – 07:25
2022-08-21	5,916	3	22:53 – 07:59
2022-08-22	6,262	1	22:43 – 06:22
2022-08-23	6,123	1	22:42 – 06:32
2022-08-24	6,546	0	22:31 – 06:36
2022-08-25	7,959	5	23:07 – 07:04
2022-08-26	5,824	0	22:54 – 06:25
2022-08-27	4,506	0	22:33 – 07:37
2022-08-28	6,482	1	23:58 – 06:50
2022-08-29	15,044	67	23:29 – 06:22
2022-08-30	14,471	65	N/A
2022-08-31	6,050	0	22:45 – 06:30
2022-09-01	12,298	63	23:00 – 06:23
2022-09-02	6,297	3	22:42 – 06:32
2022-09-03	16,741	76	23:25 – 07:02

Name: Google Voice  
Version Number: 2022.07.25.463215570

Install Date: 2022-0816

Install Time: 16:16

Username: thisisdfr@gmail.com

Note: Google Voice number is 910-621-5169

Date	Time	Action	Messages
2022-11-25	15:50	Received message	You here?
	15:51	Sent message	I am now.
	15:52	Received message	This game is going to be a draw.
	15:54	Sent message	Yeah. Now they need to win on Tuesday or else they go home.
	15:55	Received message	Iran on Tuesday?
	15:57	Sent message	Yep. Should be a good one.
	15:59	Sent message	Want to call me?
	16:00	Received message	Yep. Give me a minute.
	16:01	Incoming audio call	(1:25)
	16:05	Sent message	I'll call you now.
	16:06	Outgoing audio call	(0:46)
	16:07	Received message	Just send me a picture.
	16:09	Received picture	<i>Tell Me Why</i>
	16:10	Saved picture	<i>Tell Me Why</i>
	16:35	Received message	Now you send me one.
	16:36	Sent picture	<i>Huh?</i>
	16:43	Received message	Please delete this message when you get it.
	16:45	Deleted message	(message received at 16:43)
	16:46	Sent message	I deleted it

Name: GroupMe  
 Version Number: 5.67.4  
 Install Date: 2022-08-16  
 Install Time: 16:17

Username: thisisdfr@gmail.com

Note: Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 12 & iOS 14 images.

Group name is "Forensic Image Data Gen Group."

Date	Time	Action	Messages
2022-08-16	18:17	Login	
2022-11-14	19:37	Received message	Migrated to GroupMe.
	19:38	Sent message	Don't forget with have DMs here, too [ <i>sic</i> ]
	19:40	Received message	Yeah, I saw. Anything good on TV?
	19:41	Sent message	Nope. Absolutely nothing.
	19:43	Received message	That sucks. I was hoping you'd have a recommendation. I'm bored.
	19:47	Sent message	Nah. I am equally bored. Lol.
	19:50	Received message	Oh well. Have you seen Twitter? That's some good entertainment.
	19:52	Sent message	Lol. No, I have not. But I've heard things.
	19:54	Received message	You should check it out. It's getting crazy over there.
	19:56	Sent message	I'll send you a picture. Hang on.
	19:58	Sent picture	<i>Caller Justification</i>
	19:59	Other party liked picture	(sent at 19:58)
	20:00	Received message	My turn.
	20:01	Received picture	<i>Ryan Reynolds</i>
	20:02	Sent message	That's great. Lol.
	20:03	Received message	Switch to DMs?
	20:04	Sent reply to message	(reply to message received at 20:03) Yep!
	20:05	Received DM	I'm here.
	20:06	Saved Picture	<i>Ryan Reynolds</i>
		Sent DM	Same. I saved the picture you sent me.
	20:07	Received DM	Nice. It looks like this has Skype integration for calling.
	20:08	Sent DM	I guess there's no need to call here.
	20:09	Received DM	Nope. Let me find a picture.

	20:10	Received picture via DM	<i>Regex</i>
	20:11	Saved picture	<i>Regex</i>
	20:12	Sent DM	I'll send one.
	20:14	Sent picture via DM	<i>Windows vs Linux</i>
	20:15	Received DM	Can you delete this message when you receive it?
	20:16	Sent DM	I can't. I think I can only delete those that I send.
	20:18	Received DM	Delete that one then.
	20:19	Deleted DM	(Sent at 20:16)
	20:20	Sent DM	Done.
2022-12-04	15:04	Received static location	
	15:09	Sent static location	

Name: Health Connect  
 Version Number: 0.1.847.466013036.3-open\_beta  
 Install Date: 2022-08-21  
 Install Time: 21:05

Note: App is designed for inter-app communication among health apps. No action taken within app.

Date	Time	Action

Name: Health Sync  
 Version Number: 7.4.6.1  
 Install Date: 2022-08-16  
 Install Time: 16:17

Note: This app is designed to sync data from Garmin Connect to Google Fit. Data is sync'd automatically otherwise specified below. No action taken within app.

Date	Time	Action

Name: Imgur  
 Version Number: 6.0.7.0  
 Install Date: 2022-08-16  
 Install Time: 16:17

Username: thisisdfr@gmail.com

Note:

Date	Time	Action
2022-08-17	06:24	Logon
2022-08-21	10:30	Downloaded picture ( <i>Waffle House</i> )
	10:33	Downloaded picture ( <i>Digital Currency Chad</i> )
	10:39	Downloaded picture ( <i>Google My Mind</i> )
	10:40	Downloaded picture ( <i>Caller Justification</i> )
	10:41	Downloaded picture ( <i>Batman twerk</i> )
	10:42	Downloaded picture ( <i>Excel Jan 2<sup>nd</sup></i> )
	10:44	Downloaded picture ( <i>Alive in the 1900's</i> )
	10:50	Downloaded picture ( <i>Goodwill my dude</i> )
	10:51	Downloaded picture ( <i>Sean Austin from Goonies</i> )
	10:54	Downloaded picture ( <i>Vastness of space</i> )
	10:58	Downloaded picture ( <i>Selling Thin Mints</i> )
	11:00	Downloaded picture ( <i>Underwear passwords</i> )
	11:01	Downloaded picture ( <i>Windows Update</i> )
2022-11-08	20:38	Downloaded picture ( <i>I Didn't Stab Anyone</i> )
	20:29	Downloaded picture ( <i>Google snitch</i> )

Name: imo (or imo HD)  
 Version Number: 9.8.000000011345  
 Install Date: 2022-08-16  
 Install Time: 16:17

Note: Phone number 919-579-4674

Date	Time	Action	Messages
2022-08-16	17:36	Login	
2022-11-11	21:48	Received message	I'm here.
	21:49	Sent message	Good. This one has audio and video

	21:50	Received message	We probably won't get this done tonight.
	21:51	Sent message	Did you notice the message previews in the bottom of your chat window?
	21:52	Received message	I did. I have never noticed it before.
	21:53	Sent message	I wonder if the draft versions get stored anywhere.
	21:55	Received message	Great question. I don't recall reading anything about it.
	21:57	Sent message	We can poke around the image when it's finished.
	21:58	Received emoji	<i>Thumbs Up</i>
2022-11-12	09:22	Sent message	Let me find a picture. Hang on.
	09:24	Sent picture	<i>Alive during the 1900's</i>
	09:25	Received message	Lol! Very true. I'm waiting for that day to arrive.
	09:26	Sent message	It's coming. Trust me.
	09:27	Received message	Oh I know. I'll send a picture.
	09:29	Received picture	<i>No Disassemble</i>
	09:30	Downloaded picture	<i>No Disassemble</i>
	09:32	Sent message	Call me?
	09:33	Other party liked message	Message sent at 09:32
	09:34	Incoming audio call	(1:33)
	09:36	Sent message	I'll call you now.
	09:37	Outgoing audio call	(1:37)
	10:08	Received message	Video calls?
	10:09	Sent message	Yep. Standby.
	10:10	Outgoing video call	(1:30)
	10:13	Received message	That was not pleasant. I'll call you now.
	10:14	Incoming video call	(1:40)
	10:18	Received message	Please delete this message when you get it.
	10:19	Deleted message	Message received at 10:18
	10:20	Sent message	I deleted it.

Name: Instagram  
 Version Number: 248.0.0.17.109  
 Install Date: 2022-08-16  
 Install Time: 16:18

Username: thisisdfr  
 Email: thisisdfr@gmail.com

Note: Following five, two followers. Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 7.x, Android 8.x, Android 9.x, Android 10, Android 11, Android 12, iOS 13, and iOS 14 images.

Date	Time	Action	Messages
2022-11-20	11:20	Login	
	11:25	Received message	I'm here!
	11:27	Sent message	Awesome. This one has calls and an "unsend" function.
	11:28	Received message	I remember
	11:35	Sent message	Nice account picture, btw.
	11:36	Received message	Thanks. I figured I'd just use it where I didn't have one.
	11:37	Received message	I'll send a picture.
	11:38	Reacted to message	("liked" message received at 11:37)
	11:44	Received picture	<i>Ice Cream</i>
	11:45	Sent message	I feel that. On a bunch of levels
	11:46	Received message	Right??
	11:47	Sent message	My turn. Give me a moment to find one.
	11:48	Sent picture	<i>Two Types of People</i>
	11:49	Received message	Got it. Let's do the calls and move on.
	11:50	Sent message	I'll audio call you in a minute.
	11:51	Outgoing audio call	(1:24)
	11:53	Received message	I will call you now (audio only).
	11:54	Incoming audio call	(1:32)
	12:58	Sent message	I'll video call you momentarily.
	12:59	Outgoing video call	(1:23)
	13:01	Received message	Got it. I'll video call you in a minute.
	13:02	Incoming video call	(1:36)
	13:05	Sent message	I will unsend this message in a minute.
	13:06	Received message	Sounds good.
	13:07	Unsent message	(message sent at 13:05)



Name: kik  
 Version Number: 15.45.1.26544  
 Install Date: 2022-08-16  
 Install Time: 16:18

Username: ThisIsDFIR  
 Email: thisisdfir@gmail.com

Note:

Date	Time	Action	Messages
2022-08-16	17:35	Login	
2022-11-08	20:53	Sent message	You there?
	20:54	Received message	I am. I switched phones.
	20:55	Sent message	Good. That Samsung was on its last leg.
	20:59	Received message	I cannot get my photos to show in the photo picker.
	21:00	Sent message	Let me look at mine.
	21:01	Sent picture	<i>(How to bite a mosquito)</i>
	21:02	Received message	Lol. So I guess you got yours to work.
	21:03	Sent message	I think I have more pictures stored locally than you.
	21:04	Received message	Probably so.
	21:05	Received picture	<i>(Android 13 kik chats)</i>
	21:06	Saved picture	<i>(Android 13 kik chats)</i>
	21:07	Sent message	Inception. Nice.
	21:08	Received message	Please delete this message.
	21:09	Deleted message	<i>(Received at 21:08)</i>
	21:10	Sent message	Done.

Name: Line  
 Version Number: 12.12.0  
 Install Date: 2022-08-16  
 Install Time: 16:19

Display Name: This Is DFIR  
 Phone Number: +1 919-579-4674

Note:

Date	Time	Action	Messages
2022-08-16	17:38	Login	
2022-11-08	21:13	Received message	Howdy
	21:14	Sent message	What's up?!
	21:17	Received message	Not much. I'm trying to find something on TV besides election stuff.
	21:18	Sent message	Lol. Good luck with that. Let me know what you find.
	21:19	Received message	Yeah, not having much luck.
	21:21	Sent message	Hopefully the commercials and spam mail stops tomorrow.
	21:22	Received message	We can only hope.
	21:25	Sent message	Here comes a picture.
	21:26	Sent picture	<i>(Windows Update)</i>
	21:27	Received message	Nice. I'll send one now.
	21:28	Received picture	<i>(Uninstall Edge)</i>
	21:29	Saved picture	<i>(Uninstall Edge)</i>
2022-11-09	08:31	Received message	I'll call you. Standby.
	08:32	Incoming audio call	(1:41)
	08:34	Sent message	My turn.
	08:35	Outgoing audio call	(1:50)
	08:37	Received message	Video calls are next.
	08:38	Incoming video call	(1:28)
	08:40	Sent message	I'll call you in a minute.
	08:41	Outgoing video call	(1:41)
	08:43	Received message	Delete this message when you get a chance.
	08:44	Deleted message	(Received at 08:43)
	08:45	Sent message	I got rid of it.
	08:46	Received message	Thanks.
2022-12-04	15:52	Received static location	
	15:55	Sent static location	

Name: Magisk Manager  
 Version Number: 25.2  
 Install Date: 2022-12-05  
 Install Time: 13:55

Note: This app is installed in order to root the test phone. No data was generated. App was sideloaded via Android Debugging Bridge (adb). Apk name is “Magisk.apk”

Date	Time	Action	Messages

Name: Mastodon  
 Version Number: 1.1.3  
 Install Date: 2022-08-16  
 Install Time: 16:19

Username: thisisdfr@gmail.com

Note:

Date	Time	Action	Messages
2022-12-03	08:20	Login	
	09:07	Sent private toot	here is our first “DM.”
	09:10	Received private toot	Got it. This is very interesting. DMs are private toots.
	09:14	Sent private toot	Yep. A unique way of handling it, for sure.
	09:17	Received private toot	What to send over a picture?
	09:19	Sent private toot w/picture	Sure. Here ya go. (attachment name: Nov 25, 2022 at 2_42 PM.jpg – 8 hour maintenance)
	09:21	Received private toot w/picture	Got it. Here’s one for you ( <i>A WS Outages</i> )
	09:25	Sent private toot	I can only delete messages I send. I will delete this one in a minute.
	09:26	Received private toot	Sounds good.
	09:27	Deleted private toot	(toot sent at 09:25)
	09:29	Sent private toot	I deleted it.

Name: MEGA  
 Version Number: 6.14.1 (458)  
 Install Date: 2022-08-16  
 Install Time: 16:19

Username: thisisdfr@gmail.com

Note: Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 12 image. Asterisks indicate action taken within group.

Date	Time	Action	Messages
2022-08-17	05:22	Login	
2022-11-25	16:52	Sent message	You here?
	16:55	Received message	I am. This app has calling and location features now.
	16:56	Sent message	I saw. This app is crazy now.
2022-11-26	16:41	Received message	Are you back?
	16:42	Sent message	I am. Got in a few hours ago. 95 was its usual self.
	16:44	Received message	I try to avoid it as much as possible. There's never a good time to be on it.
	16:45	Sent message	Other than late at night, that is true.
	16:46	Received message	I will send a picture in just a minute.
	16:47	Reacted to message	(message received at 16:46 – thumbs up emoji)
	18:13	Received file	(file name: 2021-08-10 19.22.30.jpg) <i>I beg thy pardon</i>
	18:14	Saved file	(file name: 2021-08-10 19.22.30.jpg) <i>I beg thy pardon</i>
	18:16	Sent message	Love it. I'll send one. Let me find something.
	18:21	Sent file	(file name: 2021-12-15 14.03.05.jpg) <i>Zuck &amp; Santa</i>
	18:24	Received message	I'll audio call you in a minute.
	18:28	Incoming audio call	(1:27)
	18:30	Sent message	I'll call you now.
	18:31	Outgoing audio call	(1:35)
	18:34	Received message	Here comes a video call.
	18:39	Incoming video call	(1:43)
	18:43	Sent message	I'll call you next.
	18:45	Outgoing video call	(1:44)

	18:49	Sent message	I can only delete messages I send. I'll delete this one in a minute.
	18:50	Deleted message	(message sent at 18:49)
	18:51	Sent message	I deleted it.
	18:53	Received message	See you in a group.
	18:57	Created Group	(Android 13 Group)
	18:58	Added member to group	(added ThisIs DFIRTwo to group)
	18:59	Sent message*	You here?
	19:00	Received message*	I am. You were successful.
	19:01	Sent message*	Let's make this quick. I'll send you a file.
	19:02	Sent file*	(file name: IMG_1377.jpg) <i>Carbon Black blacklist</i>
	19:03	Received message*	Got it. I'll send you one. Hang on.
		Received file*	(file name: IMG_3146.jpg) <i>Privacy</i>
	19:06	Received message*	I'll call you. Audio only.
	19:22	Incoming audio call*	(~1:44)
	19:24	Sent message*	I'll call you in a minute.
	19:26	Outgoing audio call*	(~2:08)
	19:30	Sent message*	I'm sending you this message and will delete it in a minute.
	19:32	Deleted message*	(message sent at 19:30)
	19:33	Sent message*	Deleted.
2022-12-04	14:49	Sent static location	
	14:42	Received static location	

Name: MeWe  
 Version Number: 8.0.9.0  
 Install Date: 2022-08-16  
 Install Time: 16:20

Username: This Is DFIR

Note: Audio and video calls required subscriptions and were not purchased. Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 9, Android 10 Android 11, Android 12, iOS 13, and iOS 14 images.

Date	Time	Action	Messages
2022-11-20	10:21	Login	
	10:23	Sent message	I'm on. Finally. Stupid password.
	10:25	Received message	Nice. No worries. This one should go quickly since the calls are paid features.
	10:26	Sent message	It looks like I can delete all messages.
	10:28	Received message	Awesome. Want to delete this message We can get that out of the way.
	10:29	Reacted to message	(message received at 10:28)
	10:30	Sent message	How about I delete the one you sent that starts with "Nice?"
	10:31	Received message	That works, too.
	10:32	Deleted message	(message received at 10:25)
	10:33	Sent message	I deleted it.
	11:06	Received message	Ok good. I'll send a picture in a moment.
	11:11	Received picture	<i>Caller justification</i>
	11:13	Sent message	Nice. I'll send one. Hang on.
	11:15	Sent picture	<i>Health Insurance Add-ons</i>
	11:16	Received message	Lol. That is so true.
	11:17	Sent message	On to Instagram.
2022-12-04	14:44	Sent static location	
	14:46	Received static location	

Name: Microsoft Edge  
 Version Number: 104.0.1293.55  
 Install Date: 2022-08-16  
 Install Time: 16:20

Note:

Date	Time	Action
2022-11-27	14:03	Typed "nhl.com" in to address bar. Visited nhl.com
	14:05	Clicked on link "Norris tracker: Karlsson leading way"
	14:06	Opened InPrivate tab
	14:07	Typed "nfl.com" in address bar in InPrivate tab. Visited nfl.com
	14:10	Clicked on link "Browns QB Watson on track to be reinstated Monday"
	14:11	Opened second regular browsing tab
	14:12	Typed "the computer chronicles" in address bar. Searched for "the computer chronicles"
	14:14	Clicked on the IMDB entry in the search results. Visited IMDB page for The Computer Chronicles
	14:27	Opened second InPrivate tab
	14:29	Typed "star wars" in the address bar. Searched for "star wars"
	14:30	Clicked on the Wikipedia entry in the search results. Visited the Wikipedia page for Star Wars
	14:33	Closed first browsing tab (IMDB entry for The Computer Chronicles)
	14:36	Closed first InPrivate tab (nfl.com)

Name: Microsoft Teams  
 Version Number: 1416/1.0.0.2022344703  
 Install Date: 2022-08-16  
 Install Time: 16:20

Username: thisisdfr@gmail.com

Note: Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 12 & iOS 14 images.

Date	Time	Action	Messages
2022-08-16	19:29	Login	
2022-11-15	14:35	Received message	You there?
	14:36	Sent message	Yes sir, I am.
	14:37	Received message	Awesome. We can make this quick then.
	14:38	Sent message	Agreed. Let me find a picture.
	14:39	Sent picture	<i>Waffle House Locations</i>
	14:40	Received message	Is that accurate?
	14:42	Sent message	I have no idea. It's got to be generally correct though.
	14:43	Received message	Certainly looks that way. Lol.
	14:44	Reacted to message	(ROFL reaction to message received at 14:43)
	14:45	Replied to message	The numbers may not be, but the trend probably is. (reply to message received at 14:43)
	14:46	Received message	I'll send a picture. Standby.
	14:48	Received picture	<i>November 2021</i>
	14:49	Saved image	Image received at 14:48
	14:51	Sent message	Still accurate in 2022.
	14:52	Received message	I'd say. Especially the part about the Christmas music.
	14:54	Sent message	Yep. I'll audio call you. Hang on.
	14:57	Outgoing audio call	(1:37)
	14:59	Received message	My turn.
	15:00	Incoming audio call	(1:44)
	15:03	Sent message	Video call time.
	15:04	Outgoing video call	(2:07)
	15:07	Received message	I'll video call you.
	15:08	Incoming video call	(1:52)



	15:10	Sent message	Looks like I can only delete messages that I send.
	15:11	Received message	Then delete the one you jus sent.
	15:12	Deleted message	(Message sent at 15:10)
	15:13	Sent message	Done.
2022-12-05	08:26	Created new workplace	
	08:46	Sent static location	
	08:54	Received static location	
	08:47	Started sharing live location	
	08:51	Stopped sharing live location	
	08:56	Started receiving live location	
	09:00	Stopped receiving live location	

Name: Opera  
 Version Number: 70.3.3653.66287  
 Install Date: 2022-08-16  
 Install Time: 16:31

Note: Google was the default search engine

Date	Time	Action
2022-11-27	14:42	Typed "nfl.com" in the address bar. Visited nfl.com
	14:45	Clicked on link "Rodgers has avulsion fracture in thumb; surgery likely"
	14:46	Opened new regular browsing tab
	14:48	Typed "ars technical" in address bar. Searched for "ars technical"
	14:49	Clicked on the "Ars Technica" link in the search results. Visited arstechnica.com
	14:51	Clicked on link "The best Black Friday laptop deals we can find"
	14:52	Opened new Private browsing tab
	14:54	Typed "starwars.com" in the address bar. Visited starwars.com
	14:56	Clicked on the link "Tony Gilroy Breaks down Andor Season 1"
	14:58	Opened second Private browsing tab
	15:14	Typed "the computer chronicles" in the address bar. Searched for "the computer chronicles"

	15:18	Clicked on the Wikipedia entry for “Computer Chronicles” in the search results. Visited the Wikipedia page for Computer Chronicles
	15:20	Closed first regular browsing tab (nfl.com)
	15:22	Closed first Private browsing tab (starwars.com)

Name: Private Photo Vault  
 Version Number: 3.2.13  
 Install Date: 2022-08-16  
 Install Time: 16:21

Note:

Date	Time	Action
2022-11-08	20:29	Set PIN to 12345
	20:30	Created folder “My Stuff”
	20:32	Added picture to Main Album ( <i>Same Plant Same</i> )
	20:34	Added picture to folder “My Stuff” ( <i>Everything Gucci</i> )

Name: Proton Mail  
 Version Number: 3.0.4  
 Install Date: 2022-08-16  
 Install Time: 16:21

Username: thisisdfr@protonmail.com

Note: Previous data resides in this app due to account sync’ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation from the Android 10, 11, 12, and iOS 14 images.

Date	Time	Action	Subject	Message
2022-11-25	13:36	Login		
	13:39	Sent message	Android 13 Message	Here is the message.

	13:40	Received message	Re: Android 13 Message	Got it. Send a picture.
	13:43	Sent message w/ attachment	Re: Android 13 Message	Attached. (attachment name: unZKkko.jpg – <i>Lightning &amp; USB</i> )
	13:49	Received message w/ attachment	Re: Android 13 Message	Got it. I attached one, too. (attachment name: 5EEBF639-A181-4C2B-BF73-5AA685ED0F4D.jpg – <i>Mariah</i> )
	13:51	Downloaded attachment		5EEBF639-A181-4C2B-BF73-5AA685ED0F4D.jpg – <i>Mariah</i>

Name: Reddit  
 Version Number: 2022.30.0  
 Install Date: 2022-08-16  
 Install Time: 16:21

Username: This\_Is\_DFIR

Note: Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation from the Android 12 image.

Date	Time	Action	Messages/Description
2022-08-16	18:24	Login	
2022-08-21	21:48	Download Picture	<i>(Same plant, same)</i>
	21:53	Download Picture	<i>(Hide ad)</i>
	22:01	Download Picture	<i>(Two Types of People)</i>
	22:08	Download Picture (x2)	<i>(Pullsh)</i>
	22:09	Download Picture	<i>( When You Lie)</i>
	22:17	Download Picture	<i>(Add-ons)</i>
	22:19	Download Picture	<i>(Sheet costumes)</i>
	22:24	Download Picture	<i>(The victim)</i>
2022-11-20	09:04	Sent message	You here?
	09:06	Received message	I am. Doesn't look like there are any call features here. Just basic chat.

	09:07	Sent message	And I'm ok with that.
	09:08	Received message	This gloomy weather is the worst.
	09:10	Sent message	I agree. I am not getting notifications on this app. What the heck.
	09:51	Received message	Permissions look ok?
	09:53	Sent message	Yeah. No clue. Want to send me a picture?
	09:54	Received message	Sure. Just a moment.
	09:56	Received picture	<i>Page 404</i>
	09:57	Saved picture	<i>Page 404</i>
	09:58	Sent message	Lol.
	09:59	Sent message	I'll send one.
	10:01	Sent picture	<i>Dissing Terry</i>
	10:05	Received message	Got it. I also got a notification.
	10:08	Sent message	I can only delete messages that I sent.
	10:09	Received message	Then delete that one. ^^
	10:10	Deleted message	(message sent at 10:08)
	10:11	Sent message	I deleted it.
	10:12	Received message	Good.

Name: Session  
 Version Number: 1.13.7  
 Install Date: 2022-08-16  
 Install Time: 16:21

Username: This Is DFIR  
 Session ID: 05ea44a64d0110e2a2b9c8943970b360357e147e7d1a7aba79673b0294115b555f

Note:

Date	Time	Action	Messages
2022-08-16	18:06	Login	
2022-11-24	13:42	Scanned QR code for other party	
	13:43	Sent message	You there? I scanned your QR code.
	13:44	Received message	I am. Looks like this works!
	13:46	Sent message	It appears things are working.
	13:48	Received message	Looks that way. Audio calls only on this one?
	13:49	Sent message	Maybe? I do not remember. It's been a minute since I've looked at this app.

	13:51	Received message	Ok Let's do pictures. I'll go first.
	13:53	Sent message	(replied to message received at 13:51) Standing by.
	13:56	Received picture	<i>Privacy</i>
	13:57	Saved picture	<i>Privacy</i>
	13:58	Sent message	Lol. That is accurate. I'll send you one now.
	14:01	Sent picture	<i>Sean Austin</i>
	14:02	Other party saved picture	<i>Sean Austin</i>
	14:03	Sent message	I'll call you in a minute.
	14:05	Attempted outgoing audio call	Call failed due to insufficient permissions for other party.
	14:06	Outgoing audio call	(~1:50)
	14:09	Received message	My turn. I will call you.
	14:10	Incoming audio call	(~2:05)
	14:13	Sent message	Let's try video calling. I'll go first.
	14:14	Outgoing video call	(~1:35)
	14:16	Received message	Got it. I'll video call you back.
	14:17	Incoming video call	(~0:08) (Call failed)
	14:18	Incoming video call	(~1:37)
	14:21	Sent message	I am sending you this message. I will delete it in a minute.
	14:22	Deleted message	(message sent at 14:21)
	14:23	Sent message	Message has been deleted.

Name: Signal  
 Version Number: 5.45.6  
 Install Date: 2022-08-16  
 Install Time: 16:22

Updated Version: 6.2.3  
 Update Date: 2022-11-23  
 Update Time: 19:41

Username: This Is DFIR  
 Phone Number: +19195794674

Note: App was updated due to previous version not working.

Date	Time	Action	Messages
2022-08-16	18:07	Login	
2022-11-23	19:41	Updated app	
	19:44	Sent message	You there?
	19:45	Received message	I am. What are you doing?
	19:46	Sent message	Not much. Just catching up on the earlier World Cup games.
	19:47	Received message	Nice. Which one(s)?
	19:48	Sent message	England and Iran right now.
	19:49	Received message	That is a good one. I won't spoil it for you.
	19:52	Sent message	I'd say. Just saw the header.
	19:53	Received message	I'll send a picture.
	19:54	Reacted to message	(thumbs up emoji – message received at 19:53)
	19:56	Received picture	<i>Attached File</i>
	19:57	Saved picture	<i>Attached File</i>
	19:58	Sent message	I will send a picture now.
	19:59	Sent picture	<i>Don't Be Afraid</i>
	20:01	Received picture	Nice. I'll audio call you in a moment.
	20:02	Replied to message	(message received at 20:01) Sounds good.
	20:05	Incoming audio call	(~1:38)
	20:07	Sent message	Call you in a sec.
	20:08	Outgoing audio call	(~1:40)
	20:13	Received message	Video call coming.
	20:15	Incoming video call	(~1:45)
	20:19	Sent message	Here comes a video call.
	20:20	Outgoing video call	(~1:36)
	20:22	Received message	I'm sending you this message so you can delete it.
	20:23	Deleted message	(message received at 20:22)

	20:24	Sent message	I deleted the message.
2022-12-04	15:59	Received static location	
	16:00	Sent static location	

Name: Silent Phone  
 Version Number: 6.13.1  
 Install Date: 2022-08-16  
 Install Time: 16:22

Username: ThisIsDFIR  
 Phone Number: 919-636-5783

Note: Burn on read timer is set to 30 days unless otherwise noted.

Date	Time	Action	Messages
2022-11-25	14:05	Login	
	14:13	Outgoing call	(0:40)
	14:32	Received message	You here?
	14:33	Sent message	I am. I think I figured out what was up with the call earlier.
	14:34	Received message	Messages can only be sent between SC users, right?
	14:35	Sent message	Correct. Phone calls only to external numbers.
	14:37	Received message	Makes sense. Watching the game?
	14:38	Sent message	You know it.
	14:39	Received message	Awesome. I'll send you a picture in a minute.
	14:42	Received picture	<i>8-hour Maintenance</i>
	14:43	Saved picture	<i>8-hour Maintenance</i>
	14:44	Sent message	Lol. Got it. I'll send one. Hang on.
	14:45	Sent picture	<i>Fireplace</i>
	14:48	Received message	Very nice. I'll call you in a minute.
	14:50	Incoming audio call	(1:35)
	14:51	Verified other caller	
	14:52	Sent message	Now I'll call you.
	14:43	Outgoing audio call	(1:40)
	14:55	Received message	I'll video call you now.
	14:56	Incoming video call	(1:32)
	14:58	Sent message	My turn.

	15:01	Outgoing video call	(1:48)
	15:11	Received message	I've set the Burn On Read timer for this message to 1 minute.
	15:13	Sent message	It's gone.

Name: Skype  
 Version Number: 8.87.0.403  
 Install Date: 2022-08-16  
 Install Time: 16:22

Username: +1 919-579-4674  
 Screen Name: This Is DFIR  
 Skype Name: live:756b2840ef68b86b

Note: Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 7.x, Android 8.x, Android 9.x, Android 10, Android 11, Android 12, iOS 13, and iOS 14 images.

Date	Time	Action	Messages
2022-08-16	18:28	Login	
2022-11-15	15:22	Received message	I'm on Skype now.
	15:23	Sent message	Same. We might be able to knock this one out, too.
	15:24	Received message	We can try. Not sure when the kiddo is getting home.
	15:25	Sent message	Let's see how far we can get.
	15:26	Received message	Here comes a picture.
	15:27	Received picture	<i>No crime</i>
	15:28	Saved picture	(Received at 15:27)
	15:29	Replied to message	(Received at 15:28)
	15:31	Sent picture	<i>Happy Mac</i>
	15:32	Received message	I'll audio call you in a moment.
	15:33	Incoming audio call	(1:42)
	15:35	Reacted to message	(Received at 15:32)
	15:36	Sent message	I will audio call you in a minute.
	15:37	Outgoing audio call	(1:36)
	15:40	Received message	I'll video call. Hang on.



	15:41	Incoming video call	(1:32)
	18:32	Outgoing video call	(1:50)
	18:36	Sent message	Looks like Skype is like Teams. I can only delete my own messages.
	18:37	Received message	Wow. Well, delete that message then.
	18:39	Deleted message	(sent message at 18:36)
	18:40	Sent message	I deleted it.
2022-12-05	08:15	Received static location	
	08:17	Sent static location	

Name: Slack  
 Version Number: 1416/1.0.0.2022344703  
 Install Date: 2022-08-16  
 Install Time: 16:22

Username: thisisdfir@gmail.com

Note: Slack channel name: "Forensic Image Data Gen." Actions with an asterisk occur in direct messages (DMs).

Date	Time	Action	Messages
2022-11-17	14:55	Login	
	21:02	Received message	You here?
	21:07	Sent message	I am!
	21:10	Received message	Good. Looks like we have to generate data here and in the direct messages.
	21:14	Sent message	Ok. Totally doable.
	21:15	Received message	Have you seen this A&F documentary on Netflix?
	21:16	Sent message	I have not. Any good?
	21:18	Received message	That company is complete garbage. Glad I never shopped there.
	21:20	Sent message	I never did either. I thought it was lame.
	21:22	Received message	Same. I will send a picture in a minute.
	21:23	Received picture	<i>Bad Decisions</i>
	21:24	Saved picture	<i>Bad Decisions</i>
	21:26	Sent message	More people need to read that. Lol.
	21:31	Received message	Exactly. We can pick this up tomorrow.
	21:32	Sent message	Sounds good. Talk to you then.
2022-11-18	09:41	Received message	I think you owe me a picture.

	09:42	Sent message	I do. Let me find one.
	09:46	Sent picture	<i>Fries in trig</i>
	09:48	Received message	Could you even? Haha!!
	09:49	Sent message	No clue. Hope over to DMs.
	09:50	Received emoji	(Thumbs up emoji)
	10:11	Sent message*	Yo uh make it? [ <i>sic</i> ]
	10:12	Received message*	I did. Can we make calls here?
	10:14	Sent message*	Maybe. Check the upper right corner and see if you have an info button.
	10:15	Received message*	I don't have one. I have an "earphones" button.
	10:21	Sent message*	Hmm. We can do pictures first and then try the calls.
	10:22	Received message*	Ok. I'll send one first.
	10:23	Received picture*	<i>Clippy</i>
	10:24	Downloaded picture*	<i>Clippy</i>
	10:26	Sent message*	Nice. I'll send one now.
	10:27	Sent picture*	<i>Megaman</i>
	10:28	Received message*	Got it. Want to try and call me?
	10:29	Sent message*	Yep. Give me a moment.
	10:31	Outgoing audio call*	(~1:30)
	10:34	Received message*	I think it's called a "huddle" and it can do both from the earphones button.
	10:35	Sent message*	Ok. Call me.
	10:36	Incoming audio call*	(~2:00)
	10:40	Sent message*	So that looked a little different. Lol.
2022-11-19	13:10	Received message*	Let's try the video calls. I'll go first.
	13:11	Incoming video call*	(~1:45)
	13:13	Sent message*	I can not start my camera while in the huddle.
	13:14	Sent message*	I will try a regular call and just turn on video.
	13:15	Outgoing video call*	(~1:30)
	13:17	Received message*	I can't seem to keep your video. Don't even bother with trying it in the main channel.
	13:18	Reacted to message*	(thumbs up emoji to message received at 13:17)

Name: Sleep As Android  
 Version Number: 20220609  
 Install Date: 2022-08-16  
 Install Time: 16:23

Note: App tracks sleep and sends data to Google Fit; data is documented there.

Date	Time	Action

Name: Snapchat  
 Version Number: 11.92.0.33  
 Install Date: 2022-08-16  
 Install Time: 16:23

Username: thisisdfr  
 Name: This Is DFIR  
 Email Address: thisisdfr@gmail.com

My Eyes Only: 0957

Note: Chat settings were changed from the default (delete after viewing) to delete after 24 hours. Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 7.x, Android 8.x, Android 9.x, Android 10, Android 11, Android 12, iOS 13, and iOS 14 images.

Date	Time	Action	Messages
2022-08-16	18:19	Login	
	19:47	Took a snap / Sent to DFIR Two	<i>Selfie</i>
2022-08-17	17:47	Took snap / Sent to DFIR Two	<i>iPhone</i>
2022-12-05	08:18	Took snap	
	08:19	Sent to DFIR Two	<i>Train</i>
	08:31	Received message	Got it.
	08:33	Received message	Ok. Good. I'll send on in a minute. Hang on.
	08:45	Received snap	<i>Empty field and road</i>

	08:46	Held received snap for replay	
	09:26	Sent message	I got them. I think the messages got mixed up.
	09:27	Sent message	Want to send me a picture?
	09:28	Received picture via chat	<i>Autosaves file</i>
	09:29	Saved picture	<i>Autosaves file</i>
	09:30	Sent message	I'll send one now.
	09:33	Sent picture via chat	<i>Sunset</i>
		Other party saved picture in chat	<i>Sunset</i>
	09:34	Received message	That's awesome. Where was that?
	09:35	Sent message	RDU. From the parking deck.
	09:38	Received message	Nice.
	09:40	Received message	Here is your message. Please delete it after reading.
	09:44	Sent message	I can only delete my messages.
	09:45	Sent message	I will delete this message in a minute.
	09:47	Deleted message	(message sent at 09:45)
	09:48	Received message	I see that you deleted it.
	09:49	Received message	I'll delete this message in 1 minute.
	09:51	Other party deleted message	(message received at 09:49)
	09:52	Took snap / saved / sent to DFIR Two in chat	<i>Laptop screen</i>
	09:53	Added snap to My Eyes Only	<i>iPhone</i>

Name: Spotify  
 Version Number: 8.7.56.421  
 Install Date: 2022-08-16  
 Install Time: 16:23

Username: thisisdfir  
 Name: Thisisdfir  
 Email Address: thisisdfir@gmail.com

Note: Music playback via Android Auto is documented and denoted here in *italics*.

Date	Time	Action
2022-08-16	17:45	Login
2022-08-18	13:18	Started playback
		Ghostface Killah – Daytona 500
		Funkdoobiest – Rock On
		Naughty By Nature – Hip Hop Hooray
		Rob Base & DJ EZ Rock – It Takes Two
		Nice & Smooth – Sometimes I Rhyme Slow
		3 <sup>rd</sup> Bass – The Gas Face
	13:39	Stopped playback
	13:56	Started playback
		Warren G – Regulate
		Lords of the Underground – Funky Child
		Nas – The World Is Yours
		Black Rob – Whoa!
		Public Enemy – Fight The Power
		Beastie Boys – Sure Shot
	14:18	Stopped playback
2022-08-20	12:54	Downloaded playlist “DFIR Data Gen List” to phone
	12:58	<i>Start playback</i>
		<i>Lighter Shade of Brown – Hey DJ</i>
		<i>Wu-Tang Clan – C.R.E.A.M.</i>
		<i>Heavy D &amp; The Boyz – Now That We Found Love</i>
		<i>Handsome Boy Modeling School – Holy Calamaity (Bear Witness II)</i>
		<i>Sadat X – The Lump Lump</i>
	13:17	<i>Stopped playback</i>
	13:47	<i>Start playback</i>
		<i>Craig Mack – Flava In Ya Ear (Remix)</i>
		<i>The Alcoholics – Hip Hop Drunkies</i>
		<i>Sugar Hill Gang – Rapper’s Delight</i>

	13:58	<i>Stopped playback</i>
2022-08-24	13:23	<i>Start playback</i>
		<i>Sugar Hill Gang – Rapper’s Delight</i>
		<i>Run DMC – King of Rock</i>
		<i>Cypress Hill – Insane in the Brain</i>
	13:35	<i>Stopped playback</i>
	13:37	<i>Start playback</i>
		<i>Kid N’ Play – Ain’t Gonna Hurt Nobody</i>
		<i>Slick Rick – Children’s Story</i>
	13:46	<i>Stopped playback</i>
2022-08-27	09:44	<i>Start playback</i>
		<i>Slick Rick – Children’s Story</i>
		<i>EPMD - Crossover</i>
		<i>Delinquent Habits – Tres Delinquentes</i>
		<i>The Pharcyde – Otha Fish</i>
		<i>Outkast - ATLiens</i>
	10:00	<i>Stopped playback</i>
2022-08-28	12:13	<i>Start playback</i>
		<i>Outkast - ATLiens</i>
		<i>Black Sheep – The Choice Is Yours</i>
		<i>LL Cool J – I Can’t Live Without My Radio</i>
		<i>Rakim – When I B On Tha Mic</i>
		<i>Bel Biv DeVoe - Poison</i>
		<i>Grandmaster Flash – The Message</i>
	12:37	<i>Stopped playback</i>
2022-08-29	14:31	<i>Start playback</i>
		<i>Grandmaster Flash – The Message</i>
		<i>Ultramagnetic MC’s - Ego Trippin’</i>
		<i>Paperboy - Ditty</i>
		<i>Method Man – Da Rockwiler (ft Redman)</i>
		<i>Puff Daddy – All About the Benjamins</i>
		<i>Jay-Z – Brooklyn’s Finest (ft Biggie)</i>
		<i>Digital Underground - Doowutchalike</i>
	14:57	<i>Stopped playback</i>
2022-09-02	16:52	<i>Start playback</i>
		<i>Digital Underground - Doowutchalike</i>
		<i>Crooklyn Dodgers – Return of the Crookly Dodgers</i>
	17:02	<i>Stopped playback</i>
	17:06	<i>Start playback / Stopped playback</i>
2022-11-05	14:03	<i>Started playback</i>
		<i>Overseer – Horndog</i>
		<i>Skee-Lo – I Wish</i>
		<i>Vanilla – Summer</i>

	14:15	<i>Stopped playback</i>
2022-11-17	17:12	<i>Start Playback</i>
		<i>Vanilla – Summer</i>
		<i>Propellerheads – Spybreak! – Short One</i>
		<i>Descendents – Coolidge</i>
		<i>C2C – Down The Road</i>
		<i>Modest Mouse – Float On</i>
		<i>Massive Attack – Teardrop</i>
		<i>Ice Cube – It Was A Good Day</i>
		<i>Notorious B.I.G. – Mo Money Mo Problems</i>
	17:44	<i>Stopped playback</i>
2022-12-01	17:11	<i>Start playback</i>
		<i>Notorious B.I.G. – Mo Money Mo Problems</i>
		<i>Avail – Pink Houses</i>
		<i>DJ Khaled – All I Do Is Win</i>
		<i>LCD Soundsystem – Someone Great</i>
		<i>Skrillex – Bangarang</i>
		<i>LL Cool J – Mamma Said Knock You Out</i>
		<i>DJ Snake – Turn Down For What</i>
		<i>Lagwagon – May 16</i>
		<i>Sublime – Doin’ Time</i>
	17:45	<i>Stopped playback</i>

Name: Telegram  
 Version Number: 8.9.3  
 Install Date: 2022-08-16  
 Install Time: 16:24

Name: This Is DFIR  
 Phone Number: +1 (919) 579-4674

Note:

Date	Time	Action	Messages
2022-08-16	18:05	Login	
2022-11-24	07:57	Received message	Good morning!
	07:58	Sent message	Good morning. Happy Thanksgiving.
	07:59	Received message	Happy Thanksgiving. Got your stretchy pants on?

	08:01	Sent message	You know it. I'm skipping breakfast so I have extra room. (smiley emoji)
	08:03	Received message	You're a professional.
	08:08	Sent message	I like to think of myself as experienced. Lol.
	08:09	Received message	Agreed. Lol.
	08:10	Sent message	Games have started. Uruguay v South Korea.
	08:11	Received message	I'm already setup to watch.
	08:30	Sent message	Good. I'll send you a picture in a moment.
	08:31	Sent picture	<i>Pac-Man</i>
	08:32	Received message	Got it. I'll send a picture to you in a minute.
	08:34	Received picture	<i>FIFA World Cup</i>
	08:37	Saved picture	<i>FIFA World Cup</i>
	08:39	Sent message	Nice. I can audio call you in a minute.
	08:40	Outgoing audio call	(~1:45)
	08:43	Received message	I'll audio call you in a minute.
	08:44	Incoming audio call	(~1:55)
	08:48	Sent message	I'll video call you momentarily.
	08:49	Outgoing video call	(~1:57)
	08:51	Received message	Got it. I'll video call you in a minute.
	08:52	Sent message	(replied to messages received at 08:51) Sounds good. I'll be here.
	08:53	Incoming video call	(~1:49)
	08:56	Received message	I'm sending this message so you can delete it.
	08:57	Deleted message	(received at 08:56)
	08:58	Sent message	Your message has been deleted.
2022-12-04	16:03	Sent static location	
	16:04	Received static location	
	16:05	Started sharing live location	
	16:08	Stopped sharing live location	
	16:09	Started receiving live location	
	16:12	Stopped receiving live location	



Name: TextNow  
 Version Number: 22.31.0.1  
 Install Date:  
 Install Time:

Username: thisisdfr@gmail.com  
 TextNow Number:

Note: Account was banned from platform, so login was not possible. No data generated in app.

Date	Time	Action	Messages

Name: Threema  
 Version Number: 4.83  
 Install Date: 2022-08-16  
 Install Time: 16:24

Name: 7VWAAK5V  
 Phone Number: +1 (919) 579-4674

Note:

Date	Time	Action	Messages
2022-08-16	18:00	Login	
2022-11-24	14:33	Received message	You here? I think I have this set up correctly.
	14:39	Sent message	I am here. Odd that you're showing up as possible spam.
	14:41	Received message	I'm doing this from the iPad so there's no telling.
	14:42	Sent message	Oh well. Just saw this app has location and video calling now.
	14:43	Received message	I saw that, too. No tsure how that's going to work with the iPad. Lol.
	14:45	Sent message	You can put it on the iPhone. It shouldn't be an issue.
	14:46	Received message	You say that now.
	14:47	Sent message	I shouldn't jinx it.

	14:48	Received message	I'll find a picture to send you. Give me a minute.
	14:49	Sent message	(replied to message received at 14:48) Take your time. No rush on my end.
	15:43	Received picture	<i>Mashed taters</i>
2022-11-25	07:51	Saved picture	<i>Mashed taters</i>
		Sent message	Lol That was me yesterday. I'll send a picture.
	07:54	Sent picture	<i>It looks like you're asleep</i>
	07:56	Received message	Got it. Do you want to try and audio call me? I'm not seeing an option to do it on the iPad.
	07:58	Replied to message	(message received at 07:56) (thumbs up emoji) Sure. Give me a moment.
	08:02	Outgoing audio call	(1:35)
	08:05	Received message	I found it. It's in the contacts area. Not the best design choice, IMHO.
	08:08	Incoming audio call	(1:43)
	08:13	Sent message	I'll video call you. Standby.
	08:20	Outgoing video call	(1:45)
	08:24	Received message	I'll video call you in just a minute.
	09:07	Incoming video call	(1:40)
	09:10	Received message	Please delete this message when you get it.
	09:11	Deleted message	(message received at 09:10)
	09:12	Sent message	I deleted it.

Name: TikTok  
 Version Number: 25.6.4  
 Install Date: 2022-08-16  
 Install Time: 16:25

Username: 9195744674

Note: Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 9.x, Android 10, Android 12, iOS 13, and iOS 14 images.

Date	Time	Action	Message
2022-08-16	18:20	Login	
2022-11-23	08:45	Received message	I moved to TikTok.
	08:48	Sent message	Great. Let's make this one quick.

	08:50	Received message	I still don't understand the appeal of this app. I'm def not the target audience.
	08:51	Sent message	Totally agree.
	08:53	Received message	Meh. Other people like it, so it's a thing.
	08:56	Sent message	I've noticed the notifications are inconsistent.
	08:57	Received message	(Reply to message sent at 08:56) I've noticed the same thing.
	09:01	Sent message	If they come in, they're delayed, but the message timestamps appear to be correct.
	09:04	Received message	My observation as well.
	09:06	Liked message	(message received at 09:04)
	09:08	Received message	Please delete this message when you get it.
	09:09	Deleted message	(message received at 09:08)
	09:10	Sent message	I deleted it.
	09:11	Took 10 second video	<i>World Cup!</i>
	09:12	Posted 10 second video to Stories	<i>World Cup!</i> (viewable by followers only)
	09:14	Other party liked post	(post at 09:12)
	09:15	Other party replied to post	I'm watching, too!
	09:20	Liked video posted by other user	
	09:21	Replied to video posted by other user	Looking forward to the result.

Name: TOR Browser  
 Version Number: 99.0.0b3-Release (11.5)  
 Install Date: 2022-08-16  
 Install Time: 16:25

Note: Security Level set to “Standard.” Search engine was set to DuckDuckGo. All tabs are “Private.”

Date	Time	Action
2022-11-27	16:10	Typed “the computer chronicles” in the address bar. Searched for “the computer chronicles”
	16:12	Clicked on the search result for the Wikipedia entry for Computer Chronicles
	16:13	Opened second Private tab
	16:15	Typed “nhl.com” in the address bar. Visited nhl.com
	16:17	Clicked on link “Projected lineups, goalies for today”
	16:18	Opened third Private tab
	16:19	Typed “star wars andor” in the address bar.
	16:21	Clicked on search result for the Wikipedia entry for “Andor.” Visited Wikipedia.
	16:22	Closed second Private tab (nhl.com)

Name: Tracker Detect  
 Version Number: 1.1  
 Install Date: 2022-08-16  
 Install Time: 16:26

Note: Manual scans were performed when the test AirTag was not near any iOS devices for over 20 minutes. Tag was never found.

Date	Time	Action

Name: Truth Social  
 Version Number: 0.1.7  
 Install Date: 2022-12-03  
 Install Time: 08:56

Username: thisisdfir@gmail.com

Note: App is a web app. Direct messaging was not available on the platform.

Date	Time	Action	Messages
2022-12-03	08:58	Login	

Name: Tutanota  
 Version Number: 3.98.20  
 Install Date: 2022-08-16  
 Install Time: 16:26

Username: thisisdfir11@tutanota.com

Note:

Date	Time	Action	Subject	Email
2022-11-25	13:25	Login		
	13:30	Received message	Android 13 Message	Here is the first message.
2022-12-03	07:55	Login		
	07:57	Sent message	Re: Android 13 Message	Got it. Here is your reply.
	08:01	Received message	Re: Android 13 Message	Got it. Here is a picture. (attachment name: IMG_4308.jpg – <i>Mymoneygon</i> )

	08:02	Downloaded attachment	Re: Android 13 Message	(attachment name: IMG_4308.jpg – <i>Mymoneygon</i> )
	08:05	Sent message	Re: Android 13 Message	Nice. Picture is attached. (attachment name: GJ9AuUA.jpeg – <i>Digital Currency</i> )

Name: Twitter  
 Version Number: 9.54.0-release.0  
 Install Date: 2022-08-16  
 Install Time: 16:26

Username: @TDfir

Note: Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 7.x, Android 8.x, Android 9.x, Android 10, Android, 11, Android 12, iOS 13, and iOS 14 images.

Date	Time	Action	Messages
2022-08-16	18:21	Login	
2022-11-19	20:37	Received message	You on?
	20:40	Sent message	I am! I didn't get a notification, though.
	20:42	Received message	Odd. How about this one?
	20:45	Sent message	I did get one this time. Must've been because it was the first time.
	20:48	Received message	Interesting. Did you check the permissions?
	20:50	Sent message	I did, and they were set correctly.
	20:52	Received message	As long as they're working now. I'll send a picture in a minute.
	20:55	Received picture	<i>Spicy Memory</i>
	20:56	Saved picture	<i>Spicy Memory</i>
2022-11-20	08:46	Sent message	That's pretty good. I saved it. I'll send one in a minute.
	08:48	Sent picture	<i>Chrome, Safari, and Opera</i>
	08:50	Received message	True. You can probably add Edge to that, too.

	08:52	Reacted to message	(heart emoji – received message at 08:50)
	08:53	Received message	Looks like you can delete any message here.
	08:54	Received message	Please delete this message after you read it.
	08:55	Deleted message	(message received at 08:54)
	08:56	Sent message	I deleted it.

Name: Venmo  
 Version Number: 9.27.0  
 Install Date: 2022-08-16  
 Install Time: 16:27

Username: @ThisIs-DFIR

Note: Previous data resides in this app due to account sync'ing. Only the data that was populated during the creation of this image is described below. For information about the previous data, see the documentation for the Android 10, Android 11, Android 12, iOS 13, and iOS 14 images.

Use of Venmo funds require account verification by providing PII. Payment method was expired and removed; no further action taken in the app.

Date	Time	Action	Messages/Payment Details
2022-11-30	21:31	Login	
	21:38	Removed payment method	

Name: Viber  
 Version Number: 18.2.2.0  
 Install Date: 2022-08-16  
 Install Time: 16:28

Phone: 919-579-4674

Note:

Date	Time	Action	Messages
2022-08-16	18:11	Login	
2022-11-25	15:18	Received message	You still watching the game?
	15:19	Sent message	Yeah, it's good.
	15:20	Other party liked message	(message sent at 15:19)
	15:21	Received message	(reply to message sent at 15:19) Definitely. Suspenseful to say the least.
	15:22	Sent message	Agreed.
	15:23	Received message	Want to send me a picture?
	15:24	Sent message	Sure. Let me find one.
	15:26	Sent picture	<i>Underwear</i>
	15:27	Received message	Nice. I'll send you one now.
	15:31	Received picture	<i>Unpatched System</i>
	15:32	Sent message	Audio call me please.
	15:33	Received message	Standby.
	15:34	Incoming audio call	(1:38)
	15:36	Sent message	My turn. I'll call you.
	15:37	Outgoing audio call	(1:40)
	15:39	Received message	I'll video call you. Hang on.
	15:40	Incoming video call	(1:35)
	15:42	Sent message	I'll go. Give me a minute.
	15:43	Outgoing video call	(1:45)
	15:45	Received message	I'm sending you this message so you will delete it.
	15:46	Deleted message	(received at 15:45)
	15:47	Sent message	I deleted it.
2022-12-04	16:19	Sent static location	
	16:21	Received static location	



Name: Visible  
 Version Number: 2.0.3  
 Install Date: 2022-09-15  
 Install Time: 08:12

Updated Version: 2.0.13  
 Update Date: 2022-11-30  
 Update Time: 21:17

Note: Phone number is 910-303-0166.

Date	Time	Action
2022-09-15	08:14	Login
	08:20	Downloaded eSIM
	08:21	Turned on eSIM
2022-11-30	21:19	Login

ame: Waze  
 Version Number: 4.85.0.6  
 Install Date: 2022-08-16  
 Install Time: 16:28

Note: Activity done via Android Auto is documented here and denoted with double asterisks (\*\*)

Date	Time	Action
2022-08-17	05:38	Got directions to Austin-Bergstrom International Airport
	05:39	Started navigation to Austin-Bergstrom International Airport (3600 Presidential Blvd, Austin, TX 78719)
	05:51	Navigation ended
2022-08-20	13:00**	Searched for "Lowe's Food"
	13:01**	Started navigation to Lowe's Food (112 Bass Lake Road, Holly Springs, NC 27540)
	13:11**	Navigation ended
2022-08-24	13:38**	Searched for "Holly Springs Library"
	13:39**	Started navigation to Holly Springs Library (300 West Ballentine Street, Holly Springs, NC 27540)
	13:45**	Navigation ended
2022-09-08	18:05**	Searched for Thai Thai Cuisine

	18:06**	Started navigation to Thai Thai Cuisine (108 Osterville Drive, Holly Springs, NC 27540)
	18:15**	Navigation ended
2022-09-17	19:26	Searched for "Coastal Credit Union at Walnut Creek"
	19:27	Started navigation to Coastal Credit Union at Walnut Creek (3801 Rock Quarry Road, Raleigh, NC 27610)
	19:56	Navigation ended
2022-11-03	17:01	Searched for "NC Biotechnology Center"
	17:02**	Started navigation to NC Biotechnology Center (15 TW Alexander Drive, Durham, NC 27709)
	17:35**	Navigation ended
2022-11-05	13:48**	Selected "Sheetz" from vocal inquiry / started navigation to Sheetz (1100 Avent Ferry Road, Holly Springs, NC 27540)
	13:57**	Navigation ended
2022-12-01	17:12**	Searched for "NC Biotechnology Center" / Started navigation to NC Biotechnology Center (15 TW Alexander Drive, Durham, NC 27709)
	17:45**	Navigation ended

Name: WearOS  
 Version Number: 2.58.0.456733977.gms  
 Install Date: 2022-08-16  
 Install Time: 16:28

Note: This is not a stock app. The app is designed to interface with WearOS devices. Watch activities are documented here. Workouts using the watch are documented in the Google Fit app.

Date	Time	Action
2022-08-19	13:43	Connected to TicWatch
	13:47	Watch off charger
	13:48	Put watch on
	22:45	Installed Sleep As Android on watch
2022-08-20	21:30	Took watch off / watch on charger
	22:51	Watch off charger / put watch on
2022-08-21	16:34	Took watch off / watch on charger
	22:26	Watch off charger / put watch on
2022-08-22	20:51	Took watch off / watch on charger
	22:26	Watch off charger / put watch on
2022-08-23	20:29	Took watch off / watch on charger
	22:52	Watch off charger / put watch on

2022-08-24	21:00	Took watch off / watch on charger
	23:05	Watch off charger / put watch on
2022-08-25	21:06	Took watch off / watch on charger
	22:29	Watch off charger / put watch on
2022-08-26	20:46	Took watch off / watch on charger
	22:27	Watch off charger / put watch on
2022-08-27	14:23	Took watch off / watch on charger
	22:58	Watch off charger / put watch on
2022-08-28	20:29	Took watch off / watch on charger
	23:25	Watch off charger / put watch on
2022-08-29	20:03	Took watch off / watch on charger
	22:17	Watch off charger / put watch on
2022-08-30	09:19	Took watch off / watch on charger
	09:47	Watch off charger / put watch on
	21:04	Took watch off / watch on charger
	22:40	Watch off charger / put watch on
2022-08-31	19:40	Took watch off / watch on charger
	22:50	Watch off charger / put watch on
2022-09-01	20:15	Took watch off / watch on charger
	22:35	Watch off charger / put watch on
2022-09-02	20:23	Took watch off / watch on charger
	23:24	Watch off charger / put watch on
2022-09-03	16:43	Watch powered off

Name: WhatsApp  
 Version Number: 2.22.16.75  
 Install Date: 2022-08-16  
 Install Time: 16:29

Phone: 919-579-4674

Note:

Date	Time	Action	Messages
2022-08-16	17:40	Logon	
2022-11-09	09:04	Scanned QR code for DFIR Two	
	09:05	Sent message	You there?

	09:08	Received message	I am. Odd that I have you in my contacts but WA didn't see it.
	09:09	Sent message	Same for me. It didn't find you.
	09:12	Received message	Oh well.
	09:13	Sent message	Let me find a picture to send. Hang on.
	09:14	Sent picture	<i>(Fully encrypted)</i>
	09:16	Received message	O-kay, Zuck. Whatever you say.
	09:17	Sent message	Lol.
	09:18	Received message	I'll send a picture now.
	09:20	Received picture	<i>(Group of Karens)</i>
	09:21	Sent message	Nice. Our HOA is horrible, but I don't think there are any Karen's on the board.
	09:24	Received message	I'll call momentarily.
	09:25	Incoming audio call	(~1:30)
	09:29	Sent message	I'll call in a sec.
	09:31	Outgoing audio call	(~1:30)
	09:35	Received message	Video call?
	09:36	Sent message	Sure.
2022-11-11	21:35	Incoming video call	(~1:30)
	21:38	Outgoing video call	(~1:30)
	21:40	Sent message	I'm sending you this message and then I'm going to delete it, ok?
	21:41	Received message	Sure thing.
	21:42	Deleted message	(Received sent at 21:40)
2022-12-04	15:56	Started sharing live location	
	15:59	Stopped sharing live location	
	16:01	Started receiving live location	
	16:04	Stopped receiving live location	

Name: Whoop  
 Version Number: 4.61.0  
 Install Date: 2022-08-16  
 Install Time: 16:29

Note: Whoop band does not have GPS capabilities. Band experienced difficulty staying paired with the phone, which caused syncing issues. Some data collected by the band is not present in the extraction. Data displayed by the phone is documented here (there are gaps in the daily metrics).

Band could be charged without removing it.

Date	Time	Action
2022-10-02	17:47	Login
	17:48	Pair band to phone / put band on
	17:49	Update band (update failed)
	17:56	Update band
	18:03	Band update complete
2022-10-06	18:34	Battery on band
	18:40	Battery off band
	21:23	Battery on band
	23:07	Battery off band
2022-10-10	18:17	Battery on band
	21:18	Battery off band
2022-10-14	20:56	Battery on band
	22:05	Battery off band
2022-10-17	09:08	Battery on band
	12:56	Battery off band
2022-10-20	10:23	Battery on band
	12:20	Battery off band
2022-10-25	16:48	Battery on band
	20:52	Battery off band
2022-10-29	11:16	Battery on band
	14:13	Battery off band
2022-11-02	17:51	Battery on band
	20:55	Battery off band
2022-11-07	13:48	Battery on band
	16:51	Battery off band
2022-11-11	14:19	Battery on band
	18:41	Battery off band
2022-11-15	06:45	Battery on band
	11:37	Battery off band

2022-11-19	18:43	Battery on band
2022-11-20	06:57	Battery off band
2022-11-24	12:07	Battery on band
	15:08	Battery off band
2022-11-25	09:27	Take band off

**Workouts**

Note: Heart rate is measured in beats per minute (BPM). Distance is in miles. No GPS data is available. Workouts were detected only.

Date	Start Time	End Time	Type	Avg Heart Rate	Max Heart Rate	Calories	Strain
2022-10-04	12:39	13:05	Running	165	190	420	14.1
2022-10-05	13:03	13:30	Running	163	189	428	13.8
2022-10-06	12:44	13:11	Running	162	188	424	13.7
2022-10-08	11:20	11:46	Running	162	184	415	13.5
2022-10-10	13:26	13:52	Running	168	190	429	14.3
2022-10-11	12:52	13:17	Running	165	188	411	13.8
2022-10-12	13:07	13:33	Running	161	186	396	13.2
2022-10-20	12:34	13:12	Running	149	192	487	14.0
2022-10-21	09:38	10:18	Func Fit	132	160	355	9.3
2022-11-02	13:15	13:44	Running	163	189	447	14.0
2022-11-04	14:29	14:57	Running	161	187	437	13.8
2022-11-05	12:19	12:46	Running	162	186	430	13.8

**Daily Activity Metrics**

Note: HRV = heart rate variability

Date	Calories	Strain	HRV	Recovery (%)	Sleep
2022-10-02	379	0.2	-	-	-
2022-10-03	1,812	4.4	37	46	23:02 – 06:29
2022-10-04	2,251	14.6	48	58	22:58 – 06:24
2022-10-05	2,354	14.3	34	44	22:18 – 06:41
2022-10-06	2,373	14.5	37	46	22:43 – 06:30
2022-10-07	1,811	4.9	41	48	23:11 – 06:30
2022-10-08	2,310	14.1	43	63	22:37 – 07:02
2022-10-09	2,015	7.8	51	72	22:54 – 06:39

2022-10-10	2,295	14.8	43	74	22:47 – 06:30
2022-10-11	2,339	14.4	46	80	22:35 – 07:05
2022-10-12	2,216	13.6	42	63	22:48 – 06:53
2022-10-13	1,837	4.5	44	73	22:26 – 06:38
2022-10-14	1,819	4.6	46	84	22:32 – 06:35
2022-10-15	1,496	4.4	50	98	22:11 – 06:42
2022-10-20	2,017	14.5	51	57	02:54 – 06:37
2022-10-21	2,221	10.1	40	65	22:51 – 06:28
2022-10-22	1,890	5.9	29	25	23:24 – 07:02
2022-10-23	1,782	4.2	50	97	23:03 – 07:54
2022-10-24	1,835	4.1	47	88	22:42 – 06:28
2022-10-25	1,838	4.1	48	79	23:02 – 06:36
2022-10-26	1,808	5.2	52	87	23:22 – 06:35
2022-10-27	1,838	4.3	38	50	22:45 – 06:35
2022-10-28	1,829	4.3	36	45	22:53 – 06:35
2022-10-29	699	0.1	39	53	23:08 – 06:58
2022-11-02	2,084	15.1	-	-	03:37 – 06:32 (listed as “nap”)
2022-11-03	1,809	4.2	41	73	22:51 – 06:33
2022-11-04	2,343	14.4	50	97	22:48 – 06:54
2022-11-05	2,425	14.6	40	69	22:43 – 07:34
2022-11-06	1,785	4.3	42	72	23:27 – 06:16
2022-11-07	1,819	4.1	46	84	22:01 – 06:29
2022-11-08	1,919	5.1	55	98	22:08 – 06:28
2022-11-09	622	0.1	54	97	22:45 – 06:35

Name: Wickr Pro  
 Version Number: 5.106.6  
 Install Date: 2022-08-16  
 Install Time: 16:29

Username: ThisIsDFIR  
 Password:  
 Phone: +1 919-579-4674

Note: Message retention time is set to 30 days.

Date	Time	Action	Messages
2022-08-16	17:50	Login	
	17:52	Deleted old chat data	
	17:53	Changed to dark mode	
2022-11-23	09:32	Received message	Moved to Wickr.
	09:35	Sent message	Awesome. I added a profile photo.
	09:36	Received message	Same. I used Clippy again.
	09:38	Sent message	Dang. Japan finally scored. Took them long enough.
	09:39	Received message	I saw. Did you see that Amazon is getting rid of Wickr Me next year?
	09:41	Sent message	I did. Interesting move considering Pro is still available. Wonder if they're going to make it a paid service somehow.
	09:43	Received message	(reply to message sent at 09:41) Oh totally. It's Amazon. Lol.
	09:44	Liked message	(message received at 09:43)
	09:46	Sent message	I'll send you a picture.
	09:48	Sent picture	<i>Concealed Carry</i>
	09:49	Received message	Nice. I'll send one.
	09:50	Received picture	<i>Two robots</i>
	09:52	Received message	Can you delete this message when you get it?
	09:53	Deleted message	(message received at 09:52)
	09:55	Sent message	I deleted it. I'll call you in a minute.
	10:07	Outgoing audio call	(1:56)
	10:09	Received message	Got it. I'll call you momentarily.
	10:11	Incoming audio call	(1:53)
	10:13	Sent message	Video call incoming.
	10:14	Outgoing video call	(1:36)
	10:16	Received message	Here comes a video call.
	10:17	Incoming video call	(1:46)
2022-12-04	15:20	Sent static location	
	15:23	Received static location	
	15:32	Started sharing dynamic location	
	15:35	Stopped sharing dynamic location	
	15:36	Received static location	
	15:40	Started receiving dynamic location	



	15:43	Stopped receiving dynamic location	

Name: Wire  
 Version Number: 3.81.35  
 Install Date: 2022-08-16  
 Install Time: 16:29

Name: This Is DFIR  
 Username: thisisdfir@gmail.com  
 Phone: 919-579-4674

Note:

Date	Time	Action	Messages
2022-08-16	17:54	Login	
2022-11-24	09:13	Sent message	You here?
	09:14	Received message	I am. My notifications are a bit wonky, though. How are yours?
	09:15	Sent message	Mine are working so far.
	09:17	Received message	Your phone is the one that matters.
	09:19	Sent message	True. I also noticed your Clippy profile picture isn't coming through.
	12:18	Received message	Yeah, not sure what's happening there. I can see your profile picture.
	12:21	Sent message	I'm not worried about it. Still watching the games?
	12:24	Received message	Yep. Renaldo just had a penalty kick.
	12:26	Sent message	I saw that. Want me to send you a picture?
	12:27	Received message	(reply to message sent at 12:26) Sure.
	12:28	Sent message	Hang on.
	12:30	Sent picture	<i>Twerving Batman</i>
	12:31	Received message	Nice. I'll send one.
	12:33	Received picture	<i>Laptop and Coke</i>
	12:34	Saved picture	<i>Laptop and Coke</i>
	12:36	Sent message	I'll audio call you in a minute.
	12:37	Other party reacted to message	(liked message sent at 12:36)
	12:39	Outgoing audio call	(~1:35)
	12:41	Received message	I'll audio call you.

	12:43	Incoming audio call	(~1:40)
	12:48	Sent message	I'll video call you now.
	12:50	Outgoing video call	(~1:49)
	12:52	Received message	My turn.
	12:53	Incoming video call	(~1:50)
	12:56	Received message	Can you delete this message when you get it? I don't want anyone seeing it.
	12:58	Deleted message	(message received at 12:56)
	12:59	Sent message	I deleted it.
2022-12-04	16:14	Received static location	
	16:17	Sent static location	

Name: Zoom  
 Version Number: 5.11.4.7276  
 Install Date: 2022-08-16  
 Install Time: 16:29

Username: ThisIs DFIR  
 Email: thisisdfir@gmail.com

Note: Some chat data was sync'd from previous data population. See the documentation for the Android 11, Android 12, iOS 13, and iOS 14 images. Exact call timers not present.

Date	Time	Action	Messages
2022-08-16	18:27	Login	
2022-11-15	18:47	Sent message	You here?
	18:48	Received message	Present!
	18:50	Sent message	Good. Let's knock this one out. Want to send me a picture?
	18:51	Received message	Sure. Hang on.
	18:53	Received picture	<i>1900's</i>
	18:54	Reacted to picture	(laughing emoji - picture received at 18:53)
	18:55	Replied to message	That is very true. I'm waiting for that day to arrive (replied to message received at 18:53)
	18:56	Sent message	I'll send a picture
	18:58	Sent picture	<i>Glass is January 2<sup>nd</sup></i>
	18:59	Received message	Awesome!

	19:01	Sent message	I'll audio call you. Standby.
	19:03	Sent message	Actually, I don't think I can audio call you. Just video?
	19:03	Outgoing video call	(~1:30)
	19:09	Received message	Let me try to call you.
	19:22	Incoming video call	(~1:30)
	19:24	Sent message	Wow. Same thing here, too. I can only delete my messages.
	19:25	Received message	Then delete one.
	19:26	Sent message	I'll delete this one in one minute.
	19:27	Deleted message	(message sent at 19:26)
	19:28	Sent message	Deleted.
	19:29	Received message	(thumbs up emoji)

## STOCK APP INFORMATION

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The stock apps that were tested are alphabetically listed below. Information about the app, including user interaction, is also listed. Please note that each app may have previous data that was sync'd with the test device. Only the data that was populated during the data generation period will be shown here. For information about the previously populated data, please see the documentation describing the Android 7.x, Android 8.x, Android 9.x, Android 10, Android 11, and Android 12 images, which can be found at <https://thebinaryhick.blog>. For media that is downloaded, received, or sent, descriptors are included in *(parentheses)*.

Name: Android Auto  
Version Number: 7.8.622514-release

Note: This app is a default app in Android 13.

Each time the device was connected to the vehicle also represents a power event (on charge). Power event stops when device is disconnected. Messages that are read/dictated will appear in the Message section of the document. Music that is played in Android Auto will appear in the respective music app. Each connection/disconnection event also represents a Bluetooth connection.

Date	Time	Action
2022-08-21	12:57	Connect to Nissan Rogue / setup
	13:17	Disconnect from Nissan Rogue
	13:47	Connect to Nissan Rogue
	13:58	Disconnect from Nissan Rogue
2022-08-24	13:23	Connect to Nissan Rogue
	13:46	Disconnect from Nissan Rogue
2022-08-27	09:44	Connect to Nissan Rogue
	10:00	Disconnect from Nissan Rogue
2022-08-28	12:13	Connect to Nissan Rogue
	12:37	Disconnect from Nissan Rogue
2022-08-29	14:31	Connect to Nissan Rogue
	14:57	Disconnect from Nissan Rogue
2022-09-02	16:52	Connect to Nissan Rogue
	16:53	Invoke Google Assistant <i>"I need directions to the nearest Hickory Tavern."</i>
	17:02	Disconnect from Nissan Rogue
	17:06	Connect to Nissan Rogue
	17:27	Disconnect from Nissan Rogue
2022-09-04	18:14	Connect to Nissan Rogue

	18:16	Invoke Google Assistant <i>"I need directions to the Target in Apex."</i>
	18:58	Disconnect from Nissan Rogue
2022-11-17	17:12	Connect to Nissan Rogue
	17:15	Invoke Google Assistant <i>"I need directions to Egs Up grill in Fuquay Varina."</i>
	17:44	Disconnect from Nissan Rogue
2022-12-01	17:11	Connect to Nissan Rogue
	17:45	Disconnect from Nissan Rogue

Name: Camera  
Version Number: 8.6.263.461063035.12

Note: For information about the disposition of the picture listed below, see the entry for the Photos app.

Date	Time	Action
2022-08-16	16:32	Took picture
	16:33	Took video
	16:53	Took picture
	17:02	Took picture
	17:11	Took picture
	19:17	Took picture
	19:26	Took video
2022-08-17	13:03	Took picture (x2)
	17:46	Took a selfie
	20:02	Took picture
2022-09-17	20:57	Took picture / Took video
	20:59	Took video
	21:02	Took two (2) pictures
	21:07	Took video / Took picture
	21:22	Took video
	21:30	Took picture
	21:37	Took video
	21:38	Took video
	21:54	Took two (2) videos
	22:00	Took video
	22:04	Took video
	22:09	Took video
	22:23	Took a selfie

	22:44	Took a selfie
2022-09-24	15:25	Took picture
	16:42	Took video
	19:35	Took picture
	19:49	Took video
	20:16	Took picture / Took video
	20:18	Took video
	20:21	Took video
	20:31	Took video
	21:29	Took video
	21:40	Took video
2022-10-09	10:45	Took picture
2022-10-15	08:49	Took a selfie
	08:55	Took picture
2022-10-31	18:18	Took picture / Took a selfie
	18:20	Took video
2022-11-12	15:06	Took picture
2022-11-23	17:11	Took picture
2022-11-25	10:54	Took picture
	11:00	Took picture / Took a selfie
	12:07	Took picture
	12:08	Took picture
	12:09	Took two (2) pictures
2022-11-26	09:03	Took picture

Name: Chrome  
 Version Number: 103.0.5060.129

Note: Two tabs were inadvertently in other apps. No timestamp data is available for either. Actions taken within the app are documented here. Some 3<sup>rd</sup> party apps may contribute to Chrome history, and are not documented here.

Date	Time	Action
2022-08-17	16:58	Visited WRAL.com
	16:59	Clicked on link "Scientists plan the resurrection of an animal..."
2022-11-28	11:27	Typed "nhl.com" in address bar. Visited nhl.com
	11:28	Clicked link "Kuzmenko, Canucks stay hot with OT win against Sharks"
	11:30	Opened new regular browsing tab

	11:32	Typed “the computer chronicles” in address bar. Searched for “the computer chronicles”
	11:56	Clicked on Wikipedia entry in the search results. Visited Wikipedia page for Computer Chronicles
	11:57	Opened new Incognito tab
	12:01	Typed “nfl.com” in address bar. Visited nfl.com
	12:03	Clicked on link “Rogers injures ribs in Pack loss, will undergo MRI”
	12:05	Opened second Incognito tab
	12:09	Typed “star wars” in address bar. Searched for “star wars”
	12:11	Clicked on Wikipedia entry in the search results. Visited Wikipedia page for Star Wars.
	12:15	Closed first regular browsing tab (nhl.com)
	12:18	Closed second Incognito tab (Wikipedia page for Star Wars)
2022-12-04	12:01	Typed “gab.com” in address bar / visited Gab.com
	12:02	Added Gab to the home screen

Name: Docs  
Version Number: 1.22.302.00.90

Note: An action to move the document was taken within Drive. See that app’s entries for details.

Date	Time	Action
2022-12-04	20:24	Created “Unknown document” / added content
	20:25	Renamed “Unknown document” to “Android 13”
	20:28	Shared “Android 13.”

Name: Drive  
Version Number: 2.22.297.0.all.alldpi

Note: No actions taken within app. File actions taken in other apps are documented in the respective apps.

Date	Time	Action

Name: Gmail  
 Version Number: 2022.07.24.464902190.Release

Note: Google Workspace is integrated into Gmail. Messages, Spaces, and Meetings are documented under Google Chats.

Only emails sent & received by user are documented here.

Date	Time	Action	Notes
2022-12-04	20:55	Sent email "SS-1"	Email had five attachments
	20:57	Sent email "SS-2"	Email had four attachments
	20:59	Sent email "SS-3"	Email had four attachments
	21:08	Received email "Re: SS-3"	

Name: Google  
 Version Number: 13.31.14.29.arm64

Note: Some Google activity (Assistant) was conducted via Android Auto. See the entries for that app for details on that activity. This section will contain activity conducted in the Google Search Bar (GSB) from the home screen. Messages that were sent using Google Assistant will also be seen in the Messages app below.

Nearby Share activity is documented here.

Date	Time	Action
2022-12-05	11:28	Searched for "Nearby Share"
	11:36	Received file e274ee4.jpg ( <i>How</i> ) via Nearby Share
	11:55	Invoked Google Assistant from GSB bar "When do the Washington Capital play next?"
	11:56	Searched "Moore county power outage"



Name: Google Home  
 Version Number: 2.55.21.3

Note:

Date	Time	Action
2022-08-18	10:19	Created "My Home"
	10:20	Connected to NestHubC5D7
	10:22	Connected NestHubC5D7 to BSSID "No_WiFi_For_You"
2022-09-21	18:56	Asked Google Assistant (via Next Hub) "What is Super Mario?"

Name: Google Play Store  
 Version Number: 33.2.12-21 [0] [PR] 487986790

Note: Searches conducted in the Play Store will be shown here. Additionally, Nearby Share actions are also documented here. System apps were updated (documented below)

Other device info for Nearby Share:

Device Name:  
 Wi-Fi MAC:  
 BT MAC:

Date	Time	Action
2022-08-16	15:41	Updated Google Chrome
	15:42	Updated Google Camera
	15:43	Updated Sound Amplifier
		Updated Google Drive
		Updated Google Connectivity Services
		Updated Google Maps
	15:44	Updated Google Messages
		Updated Files by Google
		Updated Google Photos
		Updated Recorder
	15:45	Updated Personal Health
		Updated Device Health Services
		Updated Google Fi
		Updated Google Pixel Buds
		Updated Digital Wellbeing
		Updated Android Device Policy

		Updated YouTube Music
	15:46	Updated Android System Intelligence
		Updated Private Compute Services
		Updated Calculator
		Updated Google Calendar
		Updated Contacts
		Updated Clock
	15:47	Updated Gmail
		Updated Google (app)
	15:48	Updated Carrier Services
	15:49	Updated Gboard
		Updated Android Accessibility Suite
	15:50	Updated Google Play Protect Service
		Updated Android Auto
		Updated Speech Services by Google
		Updated Google TV
		Updated Android System WebView
	15:51	Updated YouTube
		Updated Google Play Services for VR
		Updated Pixel Live Wallpaper
	15:57	Updated Google Place Services (beta)
2022-08-17	16:57	Turned off notifications
2022-09-15	08:12	Searched for “visible wireless”
2022-11-29	21:16	Searched for “s gallery calculator”
2022-12-01	13:55	Searched for “gettr”
2022-12-02	10:30	Searched for “be real”

Name: Keep Notes  
 Version Number: 5.22.282.02.90

Note:

Date	Time	Action	Content
2022-12-04	20:08	Created note “Android 13 Note”	
	20:10	Edited note	“This is my first Keep Note.”
	20:14	Created note “My Second Note”	
	20:15	Edited second note	“Here is my second note.”
	20:16	Shared My Second Note	

Name: Maps  
Version Number: 11.43.0503

Note: Maps activity done via Android Auto is documented here and denoted with double asterisks (\*\*)

Date	Time	Action
2022-08-16	19:08	Searched for "Speakeasy"
	19:09	Started walking navigation to Speakeasy (412 Congress Avenue, Austin, TX 78701)
	19:12	Stopped navigation / re-started navigation
	19:18	Navigation ended
2022-08-20	14:00	Dropped pin (35.636121, -78.831595)
	14:01	Got directions to dropped pin**
	14:02	Started navigation to dropped pin**
	14:09	Stopped navigation to dropped pin**
2022-08-28	12:15	Searched "Pizza Hut" / started navigation to Pizza Hut (321 North Main Street, Holly Springs, NC 27540)**
	12:24	Navigation ended**
2022-09-02	16:54	Started navigation to Hickory Tavern (401 Village Walk Drive, Holly Springs, NC 27540)**
	17:01	Navigation ended**
2022-09-04	18:16	Started navigation to Target (1201 Beaver Creek Commons Drive, Apex, NC 27502)**
	18:33	Ended navigation**
2022-09-24	12:21	Searched "Coastal Cr" / Chose Coastal Credit Union Music Park
	12:22	Started navigation to Coastal Credit Union Music Park at Walnut Creek (3801 Rock Quarry Road, Raleigh, NC 27610)
	12:57	Ended navigation
2022-11-17	17:15	Started navigation to Eggs Up Grill (1436 N Main Street, Fuquay-Varina, NC 27526)**
	17:43	Ended navigation**
2022-11-25	10:12	Searched "Kennedy"
	10:13	Got directions to The John F Kennedy Center / Started navigation to The John F Kennedy Center (2700 F Street, NW, Washington, D.C. 20566)
	10:37	Ended navigation

Name: Messages  
 Version Number: messages.android\_20220721\_04\_RC01.phone\_dynamic

Note: Spam and login code/token messages were received during the data generation period. Those messages are not documented. Asterisks (\*) indicate message was sent/received via Visible number.

Date	Time	Action	Messages
2022-11-14	20:26	Received message	This should be interesting since you have two numbers.
	20:28	Sent message	I know. Lol.
	20:30	Received message	Not sure how I'm gonna document it, either.
	20:32	Sent message	Asterisks, maybe?
	20:34	Received message	That's what I was thinking.
	20:35	Sent message	Here comes a picture
	20:36	Sent picture	<i>Hide ad</i>
	20:37	Received message	Agreed.
	20:41	Received message	Here comes a picture.
	20:42	Received picture	<i>Gotta Let It Load</i>
	20:44	Saved picture	<i>Gotta Let It Load</i>
2022-12-01	14:13	Received message*	Did you get this message?
	14:15	Sent message*	I did! On the right number, too.
	14:17	Received message*	Awesome. Glad to know we got it to work.
	14:18	Sent message*	You going to ISSA tonight?
	14:19	Received message*	Yep. You?
	14:20	Sent message*	Yeah. Might be a few minutes late, though. Want to meet me there?
	14:22	Received message*	Gotta run. Be back in a bit. Call you later.
2022-12-02	14:00	Sent message*	You there?
	14:01	Received message*	Yeah. I'll call you. Standby.
	14:06	Sent message*	I'll call you momentarily.
	14:18	Sent message*	Send me a picture?
	14:19	Received picture*	<i>Code Working</i>
	14:20	Saved picture*	<i>Code Working</i>
	14:21	Received message*	Your turn.
	14:22	Sent picture*	<i>Brown Dog</i>
2022-12-04	14:51	Sent static location	
	14:54	Received static location	

Name: Phone  
 Version Number: 86.1.466135782

Note: Spam calls were received throughout the data generation period. Only calls initiated or intentionally received by the user are documented here. Asterisks (\*) indicate calls made via the Visible number.

Date	Time	Action	Length of Call
2022-09-10	17:47	Outgoing call to 919-303-5700	2:10
2022-12-02	14:04*	Incoming call from 919-888-7386 (This Is DFIR Two)	1:40
	14:08	Outgoing call to 919-888-7386 (This Is DFIR Two)	0:00
	14:12	Outgoing call to 919-888-7386 (This Is DFIR Two)	0:00
	14:14*	Outgoing call to 919-888-7386 (This Is DFIR Two)	1:50

Name: Photos  
 Version Number: 6.2.0.466466753

Note: Camera and other apps placed pictures in Photos. If a picture was saved via another app, the entry is documented in that app.

Date	Time	Action
2022-08-16	16:03	Moved 72 photos to Trash
	16:04	Emptied 72 pictures from Trash
2022-12-04	19:53	Received shared album "Memes"
	19:55	Created album "Android 13 Album"
	19:56	Added 10 pictures to "Android 13 Album"
	19:58	Shared Android 13 Album with DFIR Two

## CHARGING EVENTS

---

Below are the charging events that occurred on the device.

Date	Time	Action
2022-08-16	21:11	On charger
2022-08-17	05:11	Off charger
2022-08-19	22:48	On charger
2022-08-21	09:14	Off charger
	22:28	On charger
2022-08-22	07:40	Off charger
2022-08-25	09:14	On charger
	11:25	Off charger
2022-08-27	22:56	On charger
2022-08-28	12:09	Off charger
2022-08-31	22:49	On charger
2022-09-01	06:33	Off charger
2022-09-06	22:23	On charger
2022-09-07	06:50	Off charger
2022-09-13	22:49	On charger
2022-09-14	07:40	Off charger
2022-09-17	12:24	On charger
	14:37	Off charger
2022-09-19	22:31	On charger
2022-09-20	07:33	Off charger
2022-09-23	22:19	On charger
2022-09-24	10:37	Off charger
2022-09-29	11:07	On charger
2022-09-30	08:03	Off charger
2022-10-04	18:20	On charger
2022-10-05	14:04	Off charger
2022-10-08	11:00	On charger
2022-10-09	09:47	Off charger
2022-10-13	07:44	On charger
2022-10-14	21:12	Off charger
2022-10-19	08:06	On charger
	08:27	Off charger
2022-10-22	10:34	On charger
2022-10-24	07:35	Off charger
2022-10-28	16:39	On charger
2022-10-29	12:30	Off charger
2022-11-03	21:56	On charger

2022-11-05	13:25	Off charger
2022-11-08	22:28	On charger
2022-11-09	07:35	Off charger
2022-11-14	08:26	On charger
	11:46	Off charger
2022-11-18	23:51	On charger
2022-11-19	07:30	Off charger
2022-11-23	10:39	On charger
	15:10	Off charger
2022-11-25	09:27	On charger
	10:02	Off charger
2022-11-26	22:34	On charger
2022-11-27	07:53	Off charger
2022-11-30	20:13	On charger
2022-12-01	07:35	Off charger

## WI-FI ACCESS POINTS

---

Below are the Wi-Fi access points the device connected to during the testing period.

SSID	Password	Time First Connect
Free ATL Wi-Fi	N/A (Captive Portal)	2022-08-17 16:56
RDU Free Wi-Fi	N/A (Captive Portal)	2022-08-17 19:51
No_WiFi_For_You (w/underscores)	@ComeBack1_Year!!	2022-08-17 21:33
Carolina Theater	(None – Open network)	2022-10-15 14:05

## GOOGLE HOME DEVICES

---

The following devices were part of the Google Home map:

Nest Home Hub:

Name:	Office display
MAC Address:	D8:8C:79:73:3F:46
System Firmware:	6.20211109.1.3166240
Cast Firmware:	1.60.305621

## BLUETOOTH PAIRED DEVICES

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The following Bluetooth devices were paired with the phone during the data generation period:

Name: Nissan Rogue (*motor vehicle*)  
Bluetooth Name: Rouge [sic]  
MAC: b4:ec:02:73:ff:93

Name: Josh's Whoop (*Whoop activity tracker*)  
Bluetooth Name: Josh's Whoop  
MAC: FF:DB:9B:ED:EB:91

Name: Fitbit Versa 3 (*Fitbit activity tracker*)  
Model: FB511  
Version: 36.128.6.17  
MAC: F0:51:EA:86:0E:73

Name: This Is's Pixel Buds A-Series (*wireless headphones*)  
MAC: 14:22:3B:D1:E5:05  
Firmware: 3.415.0 (*for case and both earbuds*)  
Serial No: 1818LZAEUL4072 (*left earbud*)  
1819LZAEUR2503 (*right earbud*)  
1819LZAFOC2408 (*case*)

Name: TicWatch E3 0847 (*WearOS smart watch*)  
Model: WH12068  
Serial Num: AC01X16030847  
Build Num: PMKB.210521.002  
MAC: 30:95:E3:DB:0D:87  
WearOS Ver: 2.32  
System Ver: HMR2  
Security Patch: March 5, 2021  
Home App Ver: 2.52.0.394110842  
Google Play Ver: 21.39.17 (050300-405802548)

Name: vivoactive 4 (*Garmin activity tracker*)  
Unit ID: 3366385702  
MAC: B4:C2:6A:7F:D3:7A



## DEVICE LOCK/UNLOCK

---

Note: Unlocks with an asterisk (\*) denote unlock via biometric (fingerprint). The device locks described here are manual locks (pressing the power button). Screen timeouts resulting in locks are not documented.

Date	Time	Action
2022-08-16	16:54	Lock
	17:02	Unlock / Lock
	17:10	Unlock
	17:11	Lock
	17:19	Unlock
	17:25	Lock
	17:31	Unlock
	18:31	Lock
	19:07	Unlock
	19:19	Lock
	19:23	Unlock
	19:27	Lock
	19:41	Unlock
	19:47	Lock
	20:26	Unlock*
	20:27	Lock
2022-08-17	05:11	Unlock*
	05:24	Lock
	05:37	Unlock
	05:51	Lock
	06:22	Unlock*
	06:32	Lock
	06:49	Unlock*
	07:21	Unlock*
	07:25	Lock
	11:45	Unlock
	11:48	Lock
	13:03	Unlock*
	13:05	Lock
	15:55	Unlock*
	15:56	Lock
	16:55	Unlock*
	17:01	Lock
	17:45	Unlock*
	17:49	Lock

	19:50	Unlock*
	19:52	Lock
	20:02	Unlock* / Lock
	21:32	Unlock*
	21:35	Lock
2022-08-18	10:17	Unlock*
	10:22	Lock
	13:15	Unlock
2022-08-19	09:57	Unlock*
	13:43	Unlock*
	17:45	Unlock*
	18:00	Lock
	21:47	Unlock*
2022-08-20	13:59	Unlock*
	14:16	Lock
	20:15	Unlock*
	20:22	Lock
2022-08-21	10:23	Unlock*
	11:02	Lock
	12:53	Unlock*
	21:03	Unlock
2022-08-22	07:52	Unlock*
	07:58	Lock
	20:53	Unlock*
	21:04	Lock
2022-08-29	10:27	Unlock
	10:34	Lock
	15:53	Unlock*
		Lock
2022-08-30	12:27	Unlock*
	14:05	Lock
2022-08-31	23:00	Unlock*
2022-09-01	17:05	Unlock
2022-09-02	07:02	Unlock*
	07:03	Lock
2022-09-03	12:03	Unlock*
	12:12	Lock
	16:38	Unlock*
	16:50	Lock
2022-09-04	14:13	Unlock*
	14:17	Lock
	18:14	Unlock*
2022-09-10	17:43	Unlock

	17:50	Lock
2022-09-11	22:11	Unlock*
	22:36	Lock
2022-09-13	20:09	Unlock
2022-09-15	08:10	Unlock
	09:12	Unlock*
2022-09-17	14:38	Unlock*
	16:36	Unlock*
	16:38	Lock
	16:51	Unlock*
	17:00	Lock
	18:10	Unlock*
	19:05	Unlock* / Lock
	19:25	Unlock*
	19:56	Lock
	20:20	Unlock* / Lock
	20:45	Unlock* / Lock
	20:57	Unlock* / Lock
	20:59	Unlock*
	21:00	Lock
	21:02	Unlock*
	21:03	Lock
	21:07	Unlock* / Lock
	21:22	Unlock* / Lock
	21:30	Unlock* / Lock
	21:37	Unlock* / Lock
	21:38	Unlock*
	21:40	Lock
	21:54	Unlock* / Lock
	22:00	Unlock* / Lock
	22:04	Unlock* / Lock
	22:09	Unlock*
	22:10	Lock
	22:23	Unlock*
	22:24	Lock
	22:44	Unlock* / Lock
	22:48	Unlock*
	22:53	Lock
2022-09-18	12:24	Unlock
	12:56	Lock
	13:08	Unlock*
	17:50	Unlock*
	17:57	Lock

	18:59	Unlock*
	19:27	Lock
	19:34	Unlock*
	19:35	Lock
	20:13	Unlock*
	21:34	Lock
2022-09-19	20:55	Unlock*
	21:05	Lock
2022-09-24	12:20	Unlock
	12:57	Lock
	15:25	Unlock*/Lock
	16:41	Unlock*
	16:42	Lock
	19:34	Unlock*
	19:35	Lock
	19:49	Unlock*/Lock
	20:16	Unlock*
	20:19	Lock
	20:21	Unlock*
	20:22	Lock
	20:31	Unlock*
	20:32	Lock
	21:29	Unlock*/Lock
	21:40	Unlock*
	21:41	Lock
2022-10-02	17:43	Unlock
	18:06	Lock
2022-10-03	09:54	Unlock*
	09:56	Lock
2022-10-04	15:00	Unlock*
	15:03	Lock
2022-10-05	14:53	Unlock
	15:03	Lock
2022-10-06	18:34	Unlock
	18:41	Lock
	22:15	Unlock*/Lock
2022-10-09	10:26	Unlock*
	10:30	Lock
	10:45	Unlock*/Lock
	11:48	Unlock*
	11:49	Lock
	16:28	Unlock*
	16:29	Lock

2022-10-10	15:56	Unlock
	16:06	Lock
2022-10-14	21:18	Unlock
2022-10-15	08:48	Unlock*
	08:49	Lock
	08:55	Unlock*/Lock
	14:04	Unlock*
	14:07	Lock
2022-10-20	10:01	Unlock
	10:12	Lock
	10:33	Unlock*
	10:38	Lock
2022-10-29	12:30	Unlock
2022-10-31	18:18	Unlock
	18:19	Lock
	18:20	Unlock
	18:21	Lock
2022-11-03	17:00	Unlock*
	17:36	Lock
2022-11-05	13:31	Unlock
2022-11-06	07:57	Unlock*
	09:13	Lock
2022-11-08	20:17	Unlock
2022-11-09	08:30	Unlock*
2022-11-10	19:24	Unlock*/Lock
2022-11-11	21:35	Unlock
	21:58	Lock
2022-11-12	09:15	Unlock*
	09:39	Lock
	10:08	Unlock*
	10:42	Lock
	15:06	Unlock*/Lock
2022-11-14	18:59	Unlock*
	19:26	Lock
	19:27	Unlock*
	20:47	Lock
2022-11-15	14:33	Unlock
	15:43	Lock
	18:31	Unlock*
	19:21	Unlock*
	19:34	Unlock*
2022-11-17	14:52	Unlock*
	14:56	Lock

	20:59	Unlock*
	21:33	Lock
2022-11-18	09:41	Unlock*
	10:11	Unlock*
2022-11-19	13:09	Unlock
	13:18	Lock
	20:26	Unlock*
2022-11-20	08:45	Unlock*
	09:51	Unlock*
	10:07	Lock
	10:08	Unlock*
	11:04	Unlock*
	12:58	Unlock*
	13:12	Lock
2022-11-23	08:02	Unlock
	10:19	Lock
	17:11	Unlock*/Lock
	19:38	Unlock*
	20:18	Lock
	20:19	Unlock*
	20:27	Lock
2022-11-24	07:54	Unlock*
	08:29	Unlock*
	12:18	Unlock*
	13:41	Unlock*
	14:51	Lock
2022-11-25	07:50	Unlock*
	09:07	Unlock*
	09:16	Lock
	10:11	Unlock*
	10:38	Lock
	10:54	Unlock*
	10:55	Lock
	11:00	Unlock*/Lock
	12:07	Unlock*
	12:08	Lock
	12:09	Unlock*/Lock
	13:16	Unlock*
	14:30	Unlock*
	15:11	Unlock*
	16:35	Unlock*
	16:43	Unlock*
2022-11-26	09:03	Unlock/Lock

	16:39	Unlock*
	18:12	Unlock*
	19:20	Unlock*
	20:15	Lock
2022-11-27	08:43	Unlock*
	09:10	Unlock*
	09:25	Unlock*
	13:56	Unlock*
	14:27	Unlock*
	15:13	Unlock*
	16:07	Unlock
	16:24	Lock
2022-11-28	11:27	Unlock*
	11:55	Unlock*
	19:48	Unlock*
	20:03	Unlock*
2022-11-30	21:16	Unlock
2022-12-01	12:15	Unlock*
	13:15	Unlock*
	14:22	Lock
2022-12-02	10:30	Unlock*
	10:39	Lock
	13:59	Unlock*
	14:24	Lock
	17:15	Unlock*
	19:43	Unlock*
	20:42	Unlock*
	21:52	Lock

## OTHER EVENTS

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Below are other various events that occurred on the device. Note the device spontaneously reboot multiple times during the data generation period. Human-initiated reboots are documented here.

Date	Time	Action
2022-08-16	15:20	Reboot to bootloader (connected to Sager)
	15:21	Flash device
	15:24	Reboot after flash
	15:25	Initial setup screen
	15:27	Disconnect from Sager
	15:35	Login to Google / Activate number
	15:36	Set PIN / Registered fingerprint
	15:38	Set sound to mute
	15:40	Set screen timeout to five (5) minutes
	15:52	Searched "Clock" in Settings app
	15:53	Changed time display to 24-hour
	16:00	Sign into Personal Safety
	16:06	Changed wallpaper
	16:07	Changed to Themed Icons
	16:33	Created folder on home screen "Health"
	16:34	Created folder on home screen "Hide My Stuff"
	16:37	Created folder on home screen "Not Me"
	16:38	Created folder on home screen "Encrypted Comms"
	16:40	Created folder on home screen "Better Together"
	16:42	Created folder on home screen "Music"
	16:43	Created folder on home screen "Social"
	16:45	Created folder on home screen "Tracking"
	16:47	Created folder on home screen "Chat"
	19:19	Set sound to "Vibrate"
	20:26	Toggled switch "ON" to show battery percentage
2022-08-17	12:23	Enabled Airplane Mode
	15:42	Disabled Airplane Mode
	16:57	Turned off notifications from the Play Store
	18:21	Enabled Airplane Mode
	19:37	Disabled Airplane Mode
	21:35	Set sound to "Mute"
2022-08-18	10:17	Turned on Crash Detection
	13:16	Connected to Pixel Buds (buds in ears)
	13:39	Removed Pixel Buds from ears
	13:56	Pixel Buds in ears



	14:18	Disconnect from Pixel Buds
2022-08-19	09:58	Granted Pixel Buds access to notifications
	21:48	Connect to Pixel Buds
	22:42	Disconnect from Pixel Buds
2022-08-22	07:53	Enabled Developer Options / Disabled Automatic Updates
2022-08-30	12:28	Connect to Pixel Buds
	14:05	Disconnect from Pixel Buds
2022-09-11	22:14	Connect to Pixel Buds
	22:35	Disconnect from Pixel Buds
2022-09-15	08:37	Connect to Pixel Buds
	09:54	Disconnect from Pixel Buds
2022-09-18	20:14	Connect to Pixel Buds
	21:34	Disconnect from Pixel Buds
2022-09-19	20:56	Connect to Pixel Buds
	21:05	Disconnect from Pixel Buds
2022-10-04	18:16	Phone boot (battery had died – unsure what time it occurred)
	18:19	Device shutdown
	18:22	Phone boot
2022-12-04	20:35	Took screenshot
	20:36	Saved screenshot
	20:37	Took screenshot / saved screenshot
	20:41	Took screenshot / saved screenshot
	20:42	Took screenshot / saved screenshot
	20:43	Took screenshot / saved screenshot
	20:45	Took screenshot / saved screenshot
	20:46	Took screenshot / saved screenshot
	20:47	Took screenshot / saved screenshot
	20:48	Took screenshot / saved screenshot
	20:49	Took screenshot / saved screenshot
	20:50	Took screenshot / saved screenshot
	20:51	Took screenshot / saved screenshot
	20:52	Took screenshot / saved screenshot
2022-12-05	13:52	Connect to laptop / Enable ADB
	13:54	Pushed “Magisk.apk” to /sdcard/Download/
	13:55	Reboot to bootloader using ADB
	13:56	Flashed patched boot image (magisk_patched.img)
	13:58	Reboot to OS using fastboot
	14:02	Reboot
	14:08	Started a shell with ADB
	14:10	Started imaging device

## HOME SCREEN LAYOUT

---

Screenshots of the home screens.

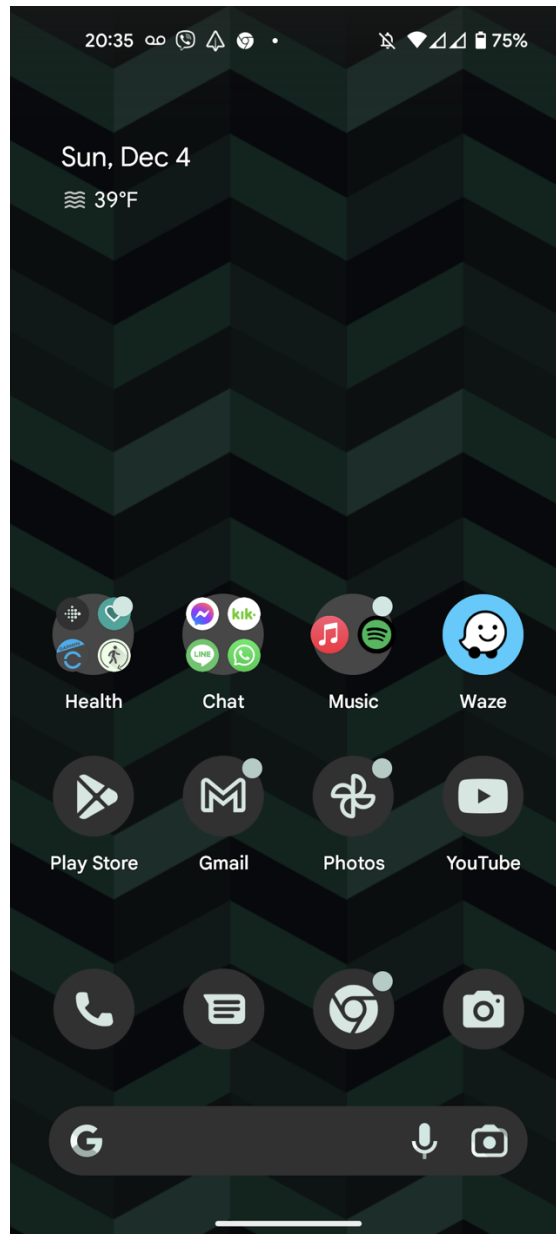


Figure 1. Home Screen 1

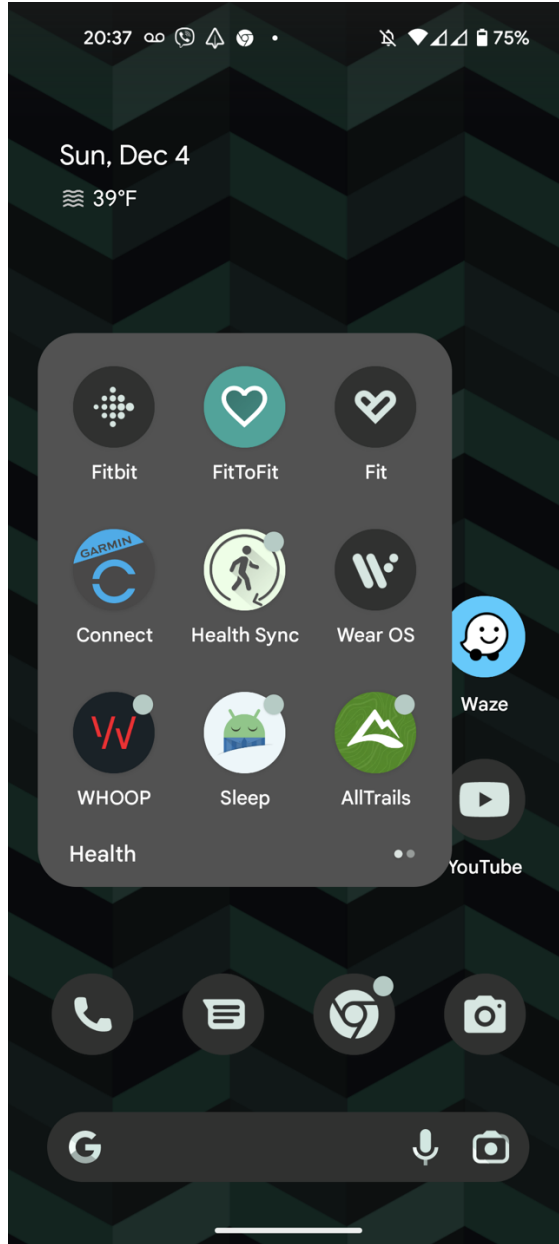


Figure 2. Home Screen 1 – Folder 1-1.

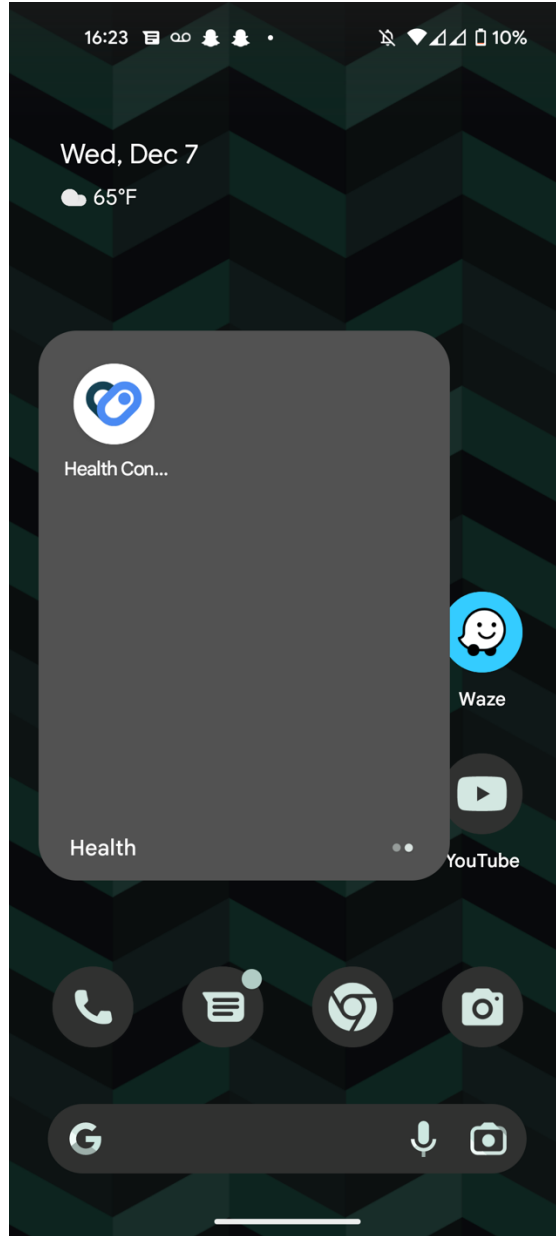


Figure 3. Home Screen 1 – Folder 1-2.

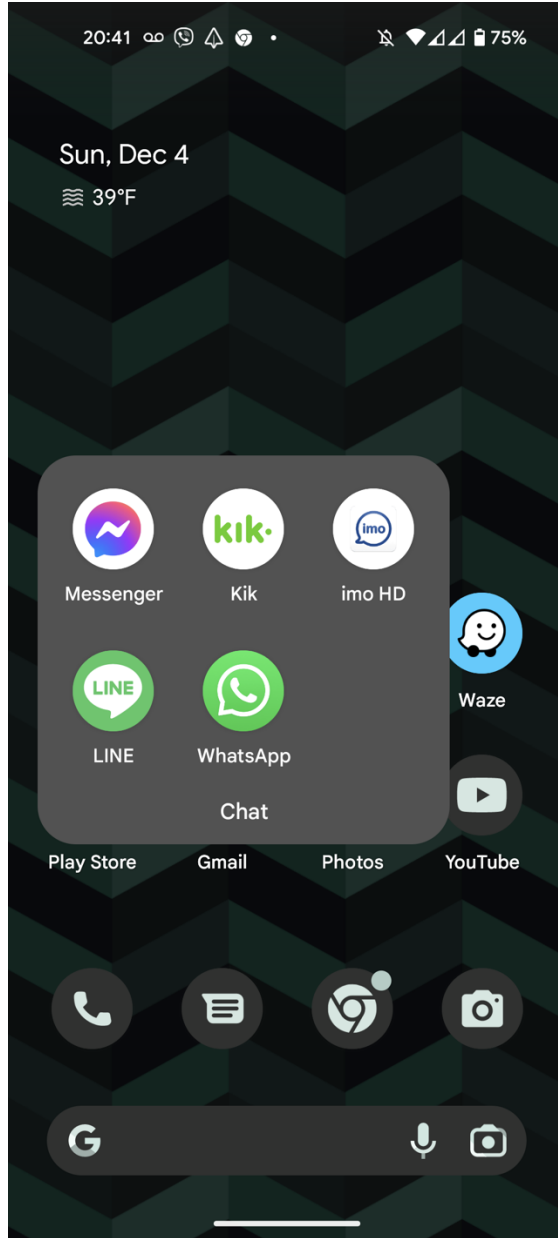


Figure 4. Home Screen 1 – Folder 2.

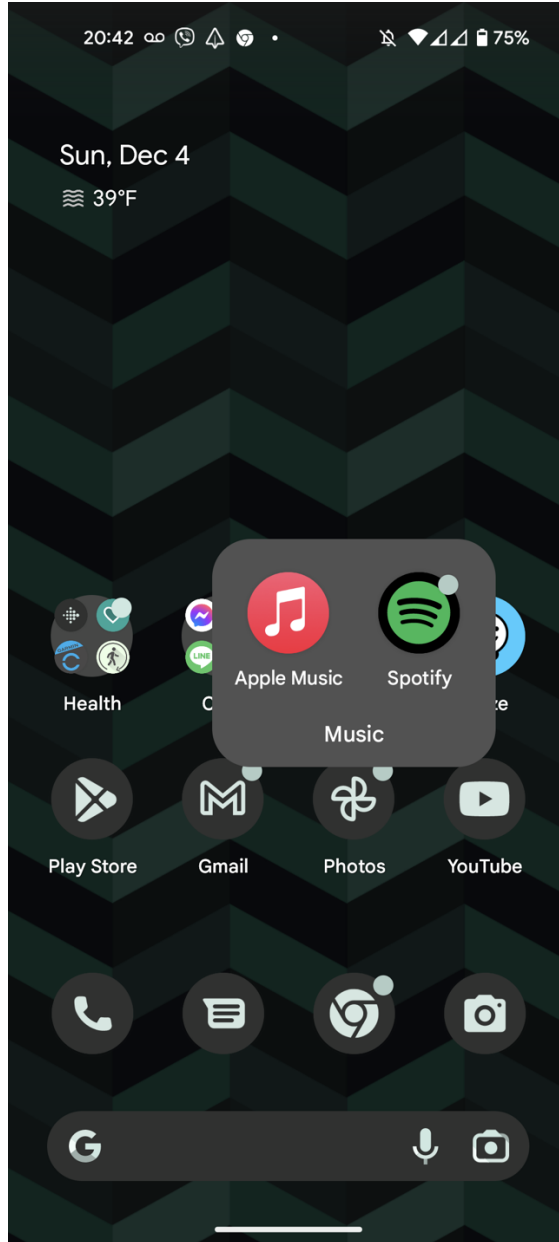


Figure 5. Home Screen 1 – Folder 3.

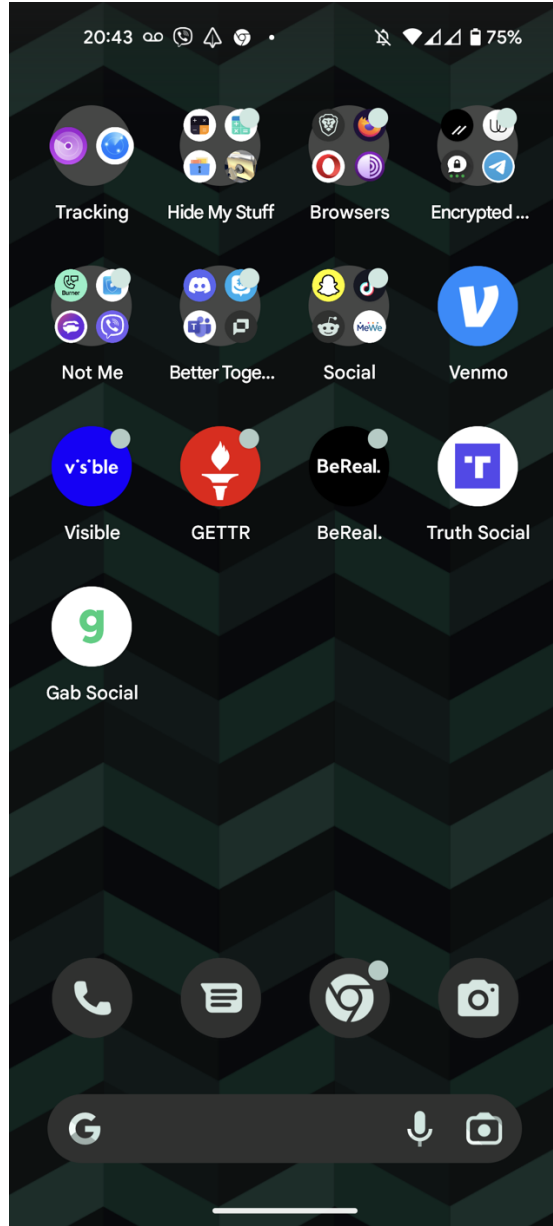


Figure 6. Home Screen 2.

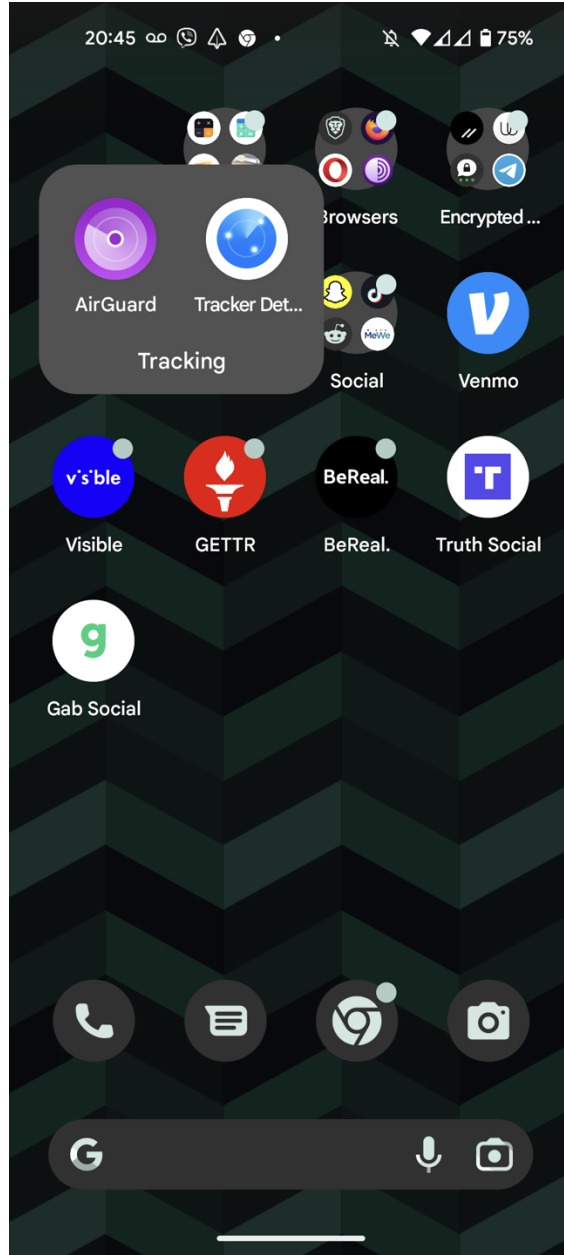


Figure 7. Home Screen 2 – Folder 1.



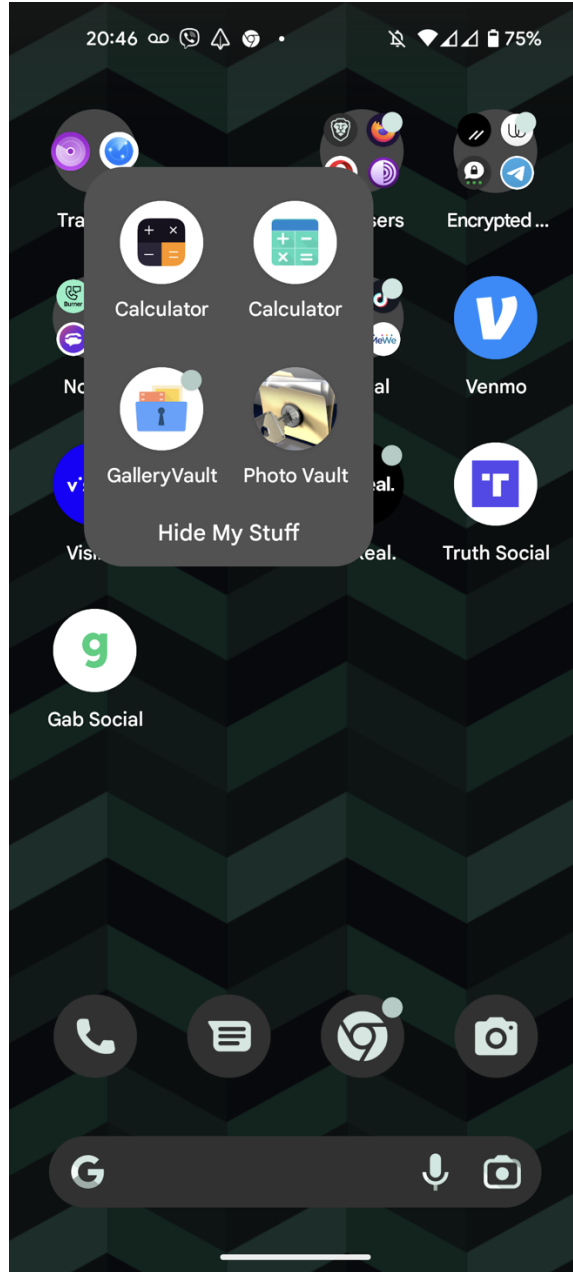


Figure 8. Home Screen 2 – Folder 2.

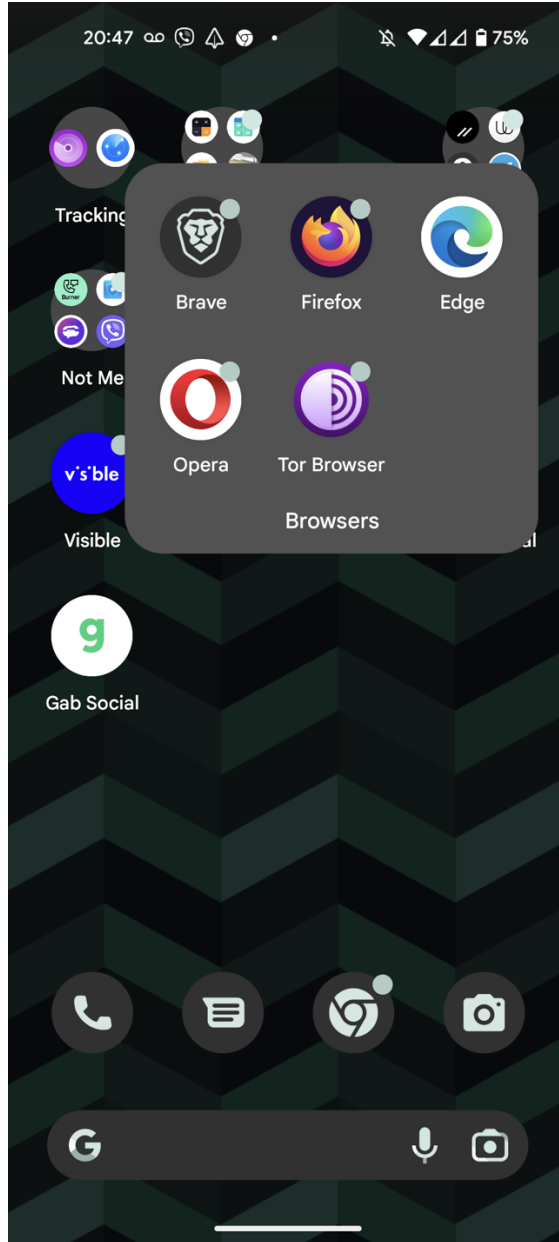


Figure 9. Home Screen 2 – Folder 3.

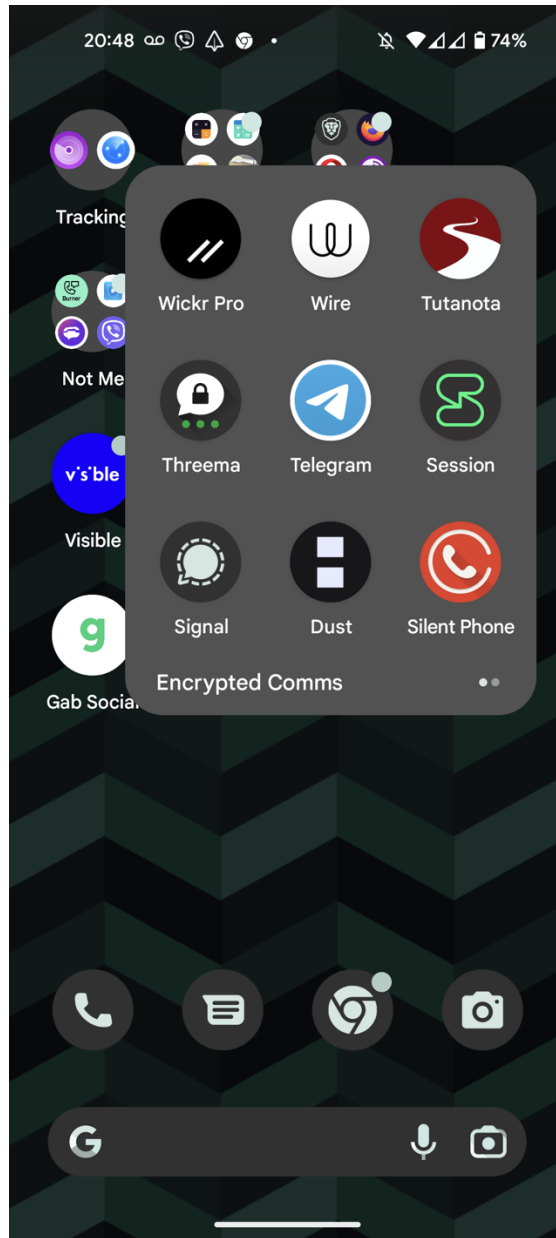


Figure 10. Home Screen 2 – Folder 4-1.

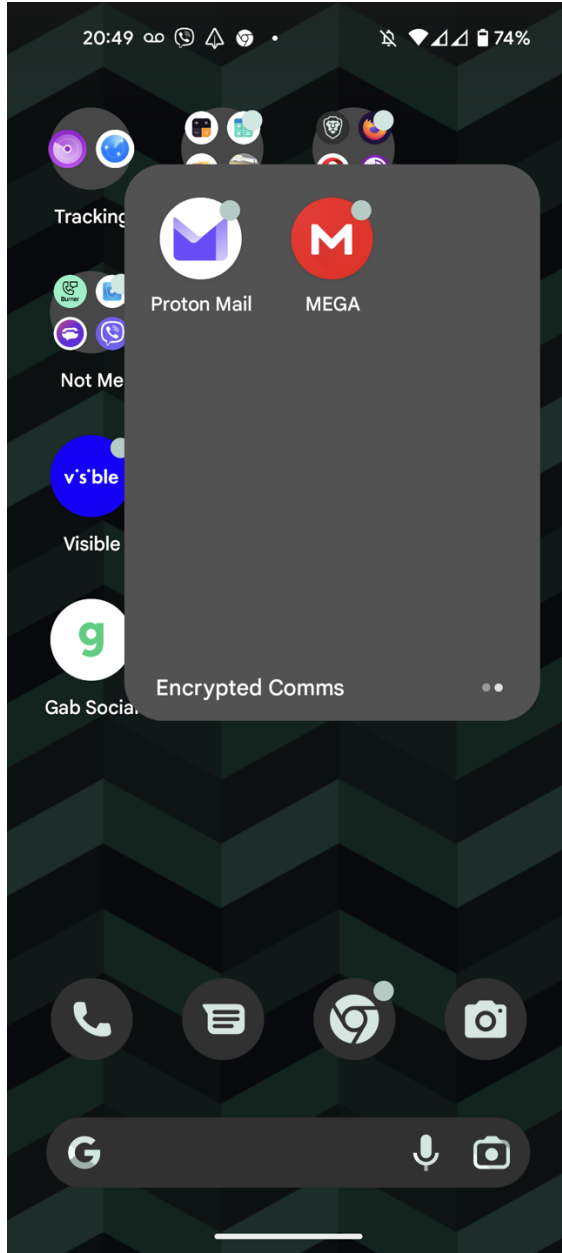


Figure 11. Home Screen 2 – Folder 4-2.

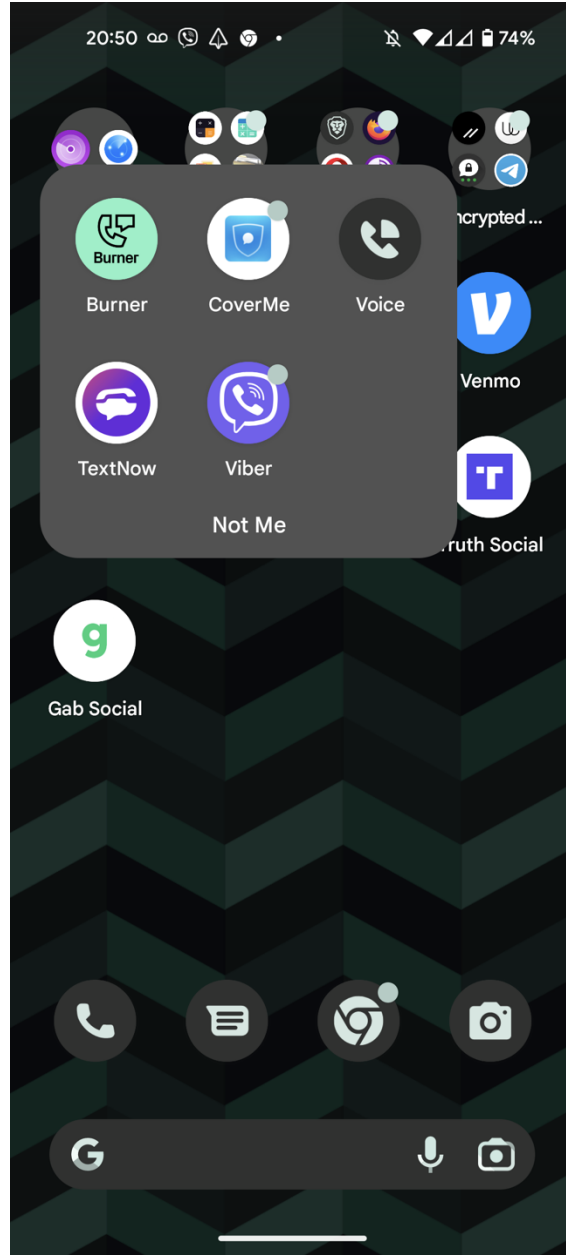


Figure 12. Home Screen 2 – Folder 5.

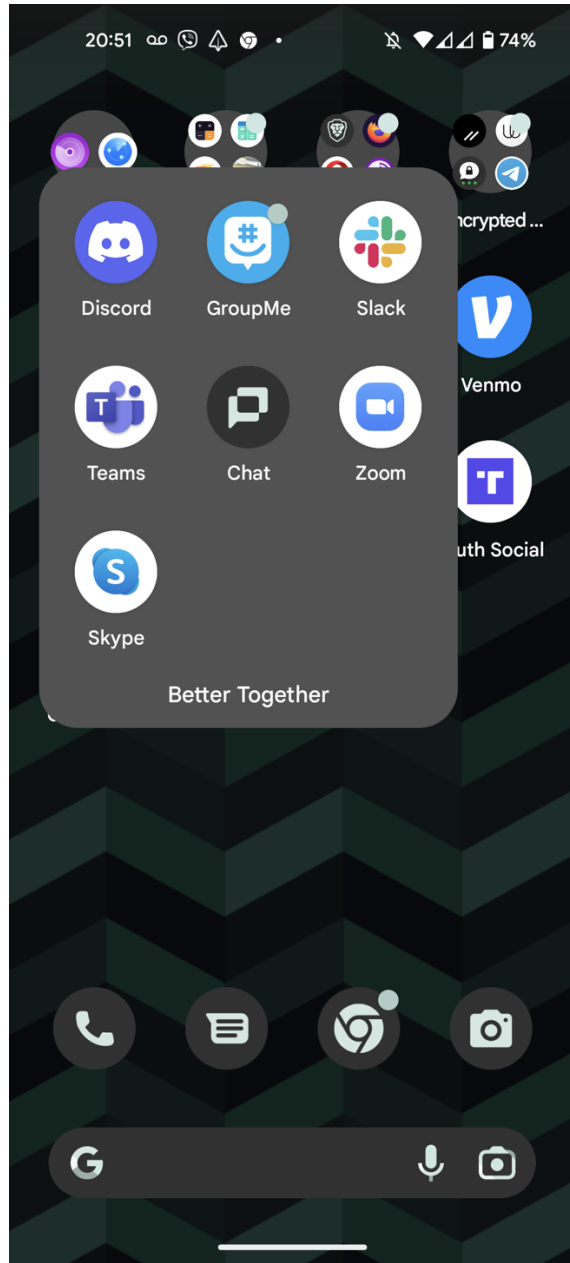


Figure 13. Home Screen 2 – Folder 6.

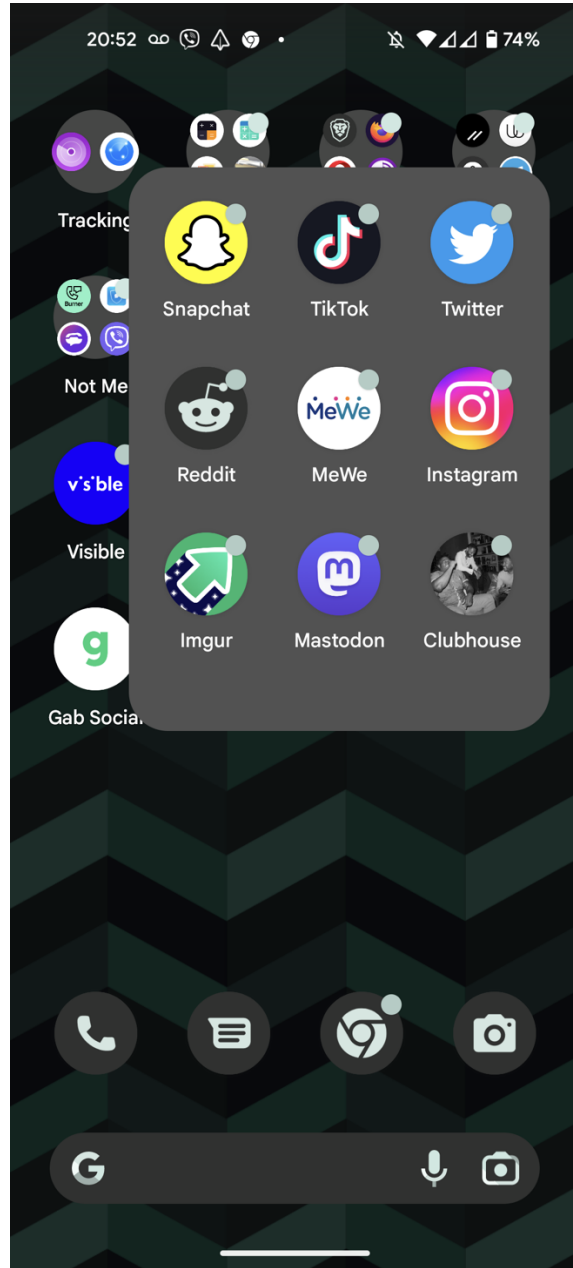


Figure 14. Home Screen 2 – Folder 7.

## IMAGE CREATION

---

Application: Magnet Acquire  
Version: 2.58.0.32373  
Date: 2022-12-05  
Time: 14:10

Note: GZIP'd files can be uncompressed using 7-Zip (Windows) or Keka (macOS).

### Hash Values:

File Name: Android\_13\_Image – Data.tar

MD5 0A50BDAE204BC823496C51A7F691AECC  
SHA1 9DF80C671556A6616AC64EC0DEA20C608789684B  
SHA256 2180B7D19CB9A1A74146440612559835C1009F62DDBFB89A3BCE6F07A741C2B8

File Name: Google G1F8F Pixel 5a.tar

MD5 BC467519396F324F049AEDC6F7DA4531  
SHA1 09A3C3A9F7F31216E83AC4A8EEEB1FCB124EFD29  
SHA256 4E652736D3C34C2EE02E22966D894AC589507D36E1B84335AA5D8F31A4372A22