ID Asign	gned to App ID	App Name	Current Version	Date of 1st release Date of last update	e Store Tag	# of Downloads	Av. Ratines Needed Permissions	Types of Notifications	Desktopversion	Types of users	Provided Information	Short Description of provided Information	Use Case based on CSF	Short Description of Use Case Has a Paid Option: Yes/No.	Gerre
		-						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		based on the general scope of ethical hacking and cybersecurity education, the app covers a broad range of topics for its users to inform them about various aspects of cybersecurity. These topics include:			
												Assets: Identifying what needs protection, such as data, devices, and networks. Attacks: Understanding different types of cyberattacks and how they are executed. Countermeasures: Learning book trategies and foot for per			
												Considerations are used to the consideration of the consideration and the consideration			
GPL01	com.askills.edu.ethical.hacking.university	Ethical Hacking University App Phone Guardian VPN: Safe Wifi	38.0.0	26.03.2020 08.03.2024	14 Educatio	ion 632428	4,88059 Storage: Other 4,7941236 [Protos/filedulf-lies; Storage; Wi-Fi connection information	Push [1]	No, mobile only	Normal Users	Assets, Attacks, Vulnerablities, Countermeasures, Risks, Threats	The app is designed to educate users about cybersecurity, so it includes information on these topics to various extents.	None Protest Patest	The Ethical Hacking University app provides comprehensive cybersecurity education, enabling users to learn about protecting digital assets through interactive courses on identifying, preventing, and responsing to cyber threats. Yes	Educational Technology
UP-LUZ	com.distimo.phoneguardian	Plant Gall Gall VPL Jan Will	2.7.1	01.07.202		32000	COMMAND PRODUCTIONS WAS DECEMBED, TOTAL COMMAND TRANSPORTED	DONCTION		ALL SHEET	15065	Tracking of Applications and Information in trainit of Smartphone On the Ethical Holding app, you can learn the basics and advanced of ethical hacking with a step-by-step guide. Below are the topics covered on the app regarding cybersecurity and ethical hacking -	Product, Delect	Secure Internet Connection through VPN and monitoring of personal information in transit Yes	
												Undersitand the basics of Hacker Know who his known as a Yateker and what is Macking? Introduction of excursity Introduction of excursity			
GENON	hacking learnhacking learn hack ethicalhacking programming.co	orline Learn Ethical Marking-MarkerT	111	18 11 2020 14 05 2024	M Edwards	5072887	4,7275205 Phone; Storage; Other	Dush (2)	No mehila oek	Normal Users	Threats, Vulnerabilities, Attacks	Types of Hackers Know about mahware	Merca	Users can learn ethical hacking techniques and cybensecurity skills through interactive modules and practical exercises offered by the 'Learn thical Hacking: Hackers' app.	Educational Technology
							Committee of the commit					Austra Francis data, implies photos, and passworth, App Permissions alshoor Aller Francis data, protein photos, and passworth, App Permissions alshoor Aller Chevic Cheva, malaway, scans tales, publishing effects, and resonance Chevic			
GPIOA	com antituiros	AVG AntiVirus & Security	24 10 0	Net Provided 16.05.202	14 Ton	nin 449256850	4,7219543 Identity, Contacts, Location, Photos Media/Files, Storage, Wi-Fi connection information	Dub	Sira Dankton	Normal Users	Assets, Attacks, Countermeasures, Risks, Threats, Vulnerabilities	Contractined sets and with examining, and produced sets of the set	Identify, Protect, Detect, Responde	The AVG Antivirus app provides comprehensive mobile security by offering real-time virus and malware scanning, app locking, encrypted photo storage, VPN protection, Wi-Fi threat detection, and hack alerts to ensure privacy and device the province of the	
												Asset: This includes information about identifying, categorizing, and understanding the value of assets within the context of cybersecurity, it may cover topics such		3-	
												The conformation of the co			
												include guidance on implementing security controls, best practices for incident response, and methods for securing networks and systems. Blaks: Users are likely informed about the various risks associated with IT and cybensecurity, including risk assessment methodologies, risk management			
												frameworks, and the identification of potential threats to information assets. Threats: The app may offer insight into different types of cybersecurity threats, such as malware, phishing, social engineering, and other forms of cyber attacks. It			
GPL05	com.pocketprep.android.itcybensecurity	IT & Cybersecurity Pocket Prep	3.13.1	23.02.2021 20.05.2024	14 Educatio	ion 117367	4,715909 Storage: Other	Push [4]	Yes, Webversion [5]	Normal Users	Assets, Attacks, Vulnerabilities, Countermeasures, Risks, Threats	may also cover threat instiligence and threat modeling to help uses understand and mitigate potential risks. Attacks: Understanding different types of cyberattacks and how they are executed. Vulnerabilities: Understanding weatherses that could be exploited by attackers.	None	The IT & Cybersecurity Pocket Prep app helps aspiring IT and cybersecurity professionals prepare for industry-recognized certification exams through comprehensive practice questions and study materials. In app purchases and Pre	mium Educational Technology
												Asset: Personal data, Photos, Apps, Wi-FI consections, Device storage, Device parformance Attacks: Viruses, Barniomwee, Spream, Philhing, Mallware Countermasures: Final-time scarring, Wi-FI threat scanning, VPN protection, App locking, Photo vault, App permissions insights			
GPL05	com.s.antivirus	AVG Protection	23.19.1	22.09.2014 25.09.202	zi Too	ols 45379054	4,7056 Identity; Contacts; Location; Photos/Media/Files; Storage; Wi-Fi connection information	Push	Yes, Desktop	Normal Users	Assets, Attacks, Countermeasures, Risks, Threats, Vulnerabilities	central visuals, satisfactors, system, visiting, schauser, visiting, schauser, visiting reference, App policing, Proton vasult, App parmissions insights filled, total settler, from years and contract c	Identify, Protect, Detect	Protect your immersphone or habitet against viviues, immormaner, sprivares, philulying attempts, and other malicare in real- tions with ANG's fall featured Android protection, offering virus scarning, V6-II threat detection, stronge optimization, photo usufu, up blocking, Moretioning of E-Mait Leak, VMM protection, and principly mights. Yes	
												Countermeasures: Information about countermeasures and best practices to protect mobile devices from various security threats, such as malware, phishing, and			
												other digital risks. Risks: Information about the potential risks and security challenges that mobile device users may encounter, including advice on how to mitigate these risks.			
GPL07	com.eset.ems2.gp	ESET Mobile Security Antivirus	9.0.32.0	05.08.2013 22.03.2024	14 Tools, Antiviru	nus 34396053	4,6811614 Carmena; Contacto; Location; Phone; SMS; Storage	Push [6]	Yes, Desktop [7]	Normal Users	Countermeasures, Risks, Threats	Threats: Information about emerging and existing threats to mobile drivice security, including details about specific types of malware, phishing attempts, and other malicious activities targeting mobile devices. Solid rangeting assearch, securities information small home devices, displicit identific devicements.	r Identify, Protect, Detect, Respond (The ESET Mobile Security Antivirus app offers comprehensive protection for mobile devices, safeguarding users against [8] malware, phishing attempts, and other digital threats to ensure a secure and worry-free mobile experience. In-app purchases	Utilities
												Attacks: Malware, viruses, spyware, ransomware, Trojans, phishing, malicious websites, malicious URLs in messages, data leaks, stalkerware, unauthorized device			
												Construences Anthrea protection, budgerood ices, second Staumer, and platfolis, sub because, sub recovering, sub recovering, sub recovering, sub recovering, substances of the		This app provides comprehensive protection with features like real-time virus scanning, anti-phishing, password	
GPL08	com.kms.free	VPN & Antivirus by Kaspensky	11.112.4.11791	11.12.2011 07.05.2024	14 Too	ols 124106468	4,6751733 Device & app history; Identity; Contacts; Location; SMS; Phone; Photos/Media/Files; Storag	pi Push	Yes, Desktop	Normal Users	Assets, Attacks, Countermeasures, Risks, Threats, Vulnerabilities	Place. Use there, plantey makes research, constant of the planter	Indentify, Protect, Detect, Respond	In a pp powder comprehensive processor with mission or everyor was according any parameter or management, data leak checker, and unfirmited VMVR for premium users, ensuring your devices stay safe and secure from [8] yearious online threats. It also offers Device Localization and File encryption Vsuft. Tes	
												Asset: The app educates users about identifying and protecting digital assets, including data, systems, and networks, from unauthorized access and exploitation.			
												Countermeasures: Users are informed about defensive strategies and measures to mitigate and respond to potential cyber threats and attacks, thereby bolstering the security posture of their digital assets.			
												Tisks: The app covers the identification and assessment of potential risks to digital systems and data, equipping users with the knowledge to proactively manage and minimize these risks.			
											Assets, Attacks, Vulnerabilities, Countermeasures,	Threats: Users are educated about different types of cyber threats and the methods used by malicious actors, enabling them to recognize and respond to potential security breaches effectively. Alexacs: Understanding different types of cyberattacks and how they are executed.		The "Learn Ethical Macking" app offers comprehensive resources and training to educate individuals about ethical hacking	
GPL09	hacking, learnhacking, learn, hack, ethical hacking, programming, co	cong Learn Ethical Hacking	4.2.35	23.01.2020 09.05.2024	4 rofessional Developmen	ent 4042896	4,07,000 Other	Push (10)	pes, Wetversion [11]	Normal Users	Risks, Threats	Wilnerablities: Understanding weaknesses that could be exploited by attackers. Asset: User Data, Device, Nerboork, Applications, Emails, Photos Altacks: Makwer, Spwarer, Advarer, Pfashing, Poplars, Hacking, Scams	nione [12]	principles, cybersecurity practices, and defensive strategies to enhance digital security awareness and skills. In app purchases	Total Technology
]			[.			Assets, Attacks, Countermeasures, Risks, Threats,	Countermeasures: Anthirus Engine, Web Shield, App. Lock, Email Guardian, LYRN, Hack Check, Scam Protection Plaks: Data Breach, Privacy Invasion, identity Theft, Unauthorized Access, Account Compromise Threats: Malware, Scammers, Malchos, Malchos, Websites, Infected Apps, Insecure W-FI		Awast Mobile Security, is a antivirus app for Android trusted by over 435 million users, offering real-time virus scanning, phalving protection, VPM for private browsing, password leak alerts, Protos Enzyption, Locking of Apps, scam prevention,	
GPL10	com.avast.android.mobilesecurity	Avest Antivirus & Security	24.9.0	06.12.2011 09.05.2024	Too	on 379232810	4,66879 Identity; Contacts; Location; Photos/Media/Files; Storage; Wi-Fi connection information	rush	res, Desktop	normal Users	Vulnerab lities	Vulnerabilities: Gutdated Apps, Weak Passacods, Unsecured Networks, Unmonitored Emails, Device Exploits	Indetify, Protect, Detect [13]	and emili monitoring to ensure comprehensive security and privacy for your device. Tes	
												Asset: It provides information about protecting and managing valuable digital assets such as personal data, financial information, and sensitive documents. Countermeasures: The app offers guidance on implementing countermeasures to mitigate security risks and protect against potential threats.			
												Flisk: Users receive information about potential security risks related to their digital activities, such as online transactions, social media usage, and data sharing. Threats: The app inform users about various types of digital threats, including philding scarms, malware, and other malicious activities that could compromise their		The Norton Genie app helps users proactively identify, protect, and respond to potential digital security threats,	
GPL11	com.norton.genieapp	Norton Genie: Al Scam Detector	1.8.0.240516004	16.01.2024 15.05.2024	14 Tools, Productivit	ity 830438	4,6683416 Other	Push [14]	Yes, Webversion [15]	Normal Users	Assets, Countermeasures, Risks, Threats	digital security. Asset: User data, Device performance, downloaded apps	Identify, Protect, Detect, Respond	The sortion center app neps cent processwey serving, protect, and respond to positional digital security threats, 26 safeguarding their online presence and personal data. No	Utifies
												Attacks: Malware, Viruses, Ransomaure, Advare, Tojaiss Countermeasures: Virus scanner, Virus science, Virus sci			
GPL12	com.bitdefender.antivirus	Bitdefender Antivirus	4.236.1146	05.04.2013 28.05.2024	14 Too	ols 8380855	4,657746 Phone; Photos/Media/Files; Storage; Wi-Fi connection information; Device ID & call informa-	di Push	ffes, Desktop	Normal Users, Business Solution exists but	Assets, Attacks, Countermeasures, Risks, Threats, Vulnerablities	Passo: Usual Issu, Nevice compromise, Uniscontrole access, Ioentry Inent Thesate: Chinis Hersets, Mullicious app, Philhing attacks, Scarns Vulnerabilities: App Installation sources, User Interaction with malicious links or apps	Identify, Protect, Detect, Respond	137 Focus in Antivirus Scanning of all files on mobile device only, does not offer any other services and is free to use. No	
												Asset: Information about the security of digital assets such as personal data, devices, and online accounts.			
												Countermeasures: Information on security measures and actions that users can take to protect their devices and data. Bisks: Information about potential security risks associated with online activities, network connections, and app usage.			
GPL13	com avira android	Asina Security Antivirus & VPN	7.24.0	27.02.2012 14.05.2024	4 Tools, Anthrin	rus 37745475	4,662739 Carnera; Contacts; Location; Phone; Microphone; Storage	Push [18]	Yes, Desktop [19]	Normal Users	Assets, Countermeasures, Risks, Threats	Threats: Information about common and emerging cybenseuring threats, such as makeure, phohining, and data breaches. Asset: User data, Mobile devices, Buelong and financial apap, Pencoal Information, WFI networks, Social media accounts	Identify, Protect, Detect, Respond	The Avira Security Antivirus & VPN app provides comprehensive digital protection by offering antivirus security, VPN 26 privacy, and real-time threat detection for users' devices and online activities. In-app purchases and pair	Utilities .
												Assis is a law survey record unreals, sensed gold unisoned apply, records in contraded, yet in records, and include a Countries. Allackic, Viruse garper, Care, it destricts the fit, Ramcromover, Syepures, Privacy (ask, Crypto searms, Traud, Phishing, Rake apps, Insecure Wi-Fi, Unauthorised device access access. Countermasures: Advanced Al scan, Web Guard, Fraud Buster, Arthrivos Scan, Pre-Installation Scan, Pay Guard Mobile, Privacy Scanner, Wi-Fi Checker, Parental			
											Assets, Attacks, Countermeasures, Risks, Threats,	Control, Secret Snap, Lost Device Protection & Acti-Theft, App Manager Blaks: Data breach, Francial Ioss, Unauthorized access, Device thicf, Privacy Invasion Threats: Malicians app, Phishing wobbling, Fraudulint beat messages, False notifications, Insecure networks, Unauthorized device usage	Identify, Protect, Detect,	Mobile Security for Android provides corruptehensive protection against online threats with advanced AI scanning for malicious app detection, web protection through a VPN, fraud and scam prevention, privacy scanning, parental controls,	
GPL14	com trendmicro, tmmspersonal	Mobile Security & Antivirus	16.2.0	19.08.2011 20.05.2024	14 Too	ols 5658235	4,6541786 Device & app history; Location; SMS; Phone; Photos/Media/Filex; Storage; Carnens; Microp	th Push	Yes, Desktop	Normal Users	Vulnerabilities	Nuherabilities: Insecure Wi-FL Unprotected personal information, Unverfied upp installations, Weak social media privacy settings Asset: Information about the security of the user's mobile device and its digital assets.	Respond, Recover [21]	anti-theft features, and memory optimization. It also offers Device Localization. Yes	
GPL15	com.bitdefender.security	Bitdefender Mobile Security	3.3.237.2422	12.05.2011 24.05.2024	14 Tools, Antiviru	nus 15813574	4,6335773 Camera; Location; SMS; Other; Storage	Push [22]	Yes, Desktop [21]	Normal Users	Assets, Countermeasures, Risks, Threats	Countermeasures: Information about security measures and defenses against mobile threats. Bluks: Information about opterfail security risks to the user's mobile device and personal data. Threats: Information about energing mad existing mobile excurity threats.	Identify, Protect, Detect [24]	Bitdefender Mobile Security safeguards your Android device against malware, phishing attacks, and privacy threats, providing comprehensive mobile security and peace of mind. In app purchases and pain	Utilities
												Asset: Personal data, Device, Network Attacks: Mahazer, Syyuser, Phishing, Ransomware, Adware Countermasurer, Asthony, VPA, Ad Blocker, WIV Analyser, Malware Scanner, Spysser Detector, Split Turneling VPN, Dark Web Monitoring, SMS Security, Countermasurer, Asthony, VPA, Ad Blocker, WIV Analyser, Malware Scanner, Spysser Detector, Split Turneling VPN, Dark Web Monitoring, SMS Security,			
												Suspicious Network Detection Fluks: Colline princy risks, Network compromises, identity theft Threats: Makery, Fausdulent websites, Ursafe Will networks, Phishing attacks		This app offers malware, apywere, and online privacy risk protection through features like WIFI Analyser, Virus Cleaner, Ad	
GPL16	com.syminter.mobilesecurity	Norton360 Antivirus & Security	5.87.0.240521997	08.06.2010 25.05.2024	54 Too	ols 70666688	4,62978 Identity, Contacts; Location; SMS; Photos/Media/Files; Storage; Camera; Wi-Fi connection in	Push	Yes, Desktop	Normal User	Vulnerab lities	Volnerabilities: Device volnerabilities, Insecure Wiff networks, Risky apps	Identify, Protect, Detect, Responde	[2] Blocker, and a VPN. It also supports Dark Web Monitoring. Yes	
												Asset: It helps users identify and categorize the assets connected to their network, including devices and infeathucture components. Risks: The app informs users about potential risks that could compromise the security and stability of their network.			
GPL17	com.everlook.android.fing	Fing - Network Tools	12.08.0	24.12.2010 17.05.2024	14 Tools, Wi-Fi Scanne	ner 56775952	4,5556135 Camera; Contacts; Location; Phone; Other; Storage	Push [26]	Yes, Desktop [27]	Normal Users	Assets, Vulnerabilities, Risks, Threats	Threats: It provides insights into potential threats that could impact the confidentially, integrity, and availability of their network resources. Vulnarabilities: Users can gain information about network vulnarabilities that could be exploited by malicious actors to compromise their network security.	Protect, Detect [28]	Fire - Network Tools is used to efficiently manage, monitor, and secure home and business networks by providing detailed insights into connected devices, network performance, and security vulnerabilities.	Utilina
												Asset: Duer data, Training content, Application Interface Attackie: Publing, oils branchus, Adaptive, fundation red occus Countermasures: Enception, Authentication mechanisms, Secure coding practices, Regular updates Black: Data bulbs, Funday invasion, Intellectual property theft			
GPL18	cyber.security.leam.programming.coding.hacking.software.deve	opm Learn Cyber Security	4.2.35	28.03.2020 09.05.2024	54 Educatio	ion 652608	4,53 Photos/Media/Files; Storage	None related to security	No, mobile anly	Normal User	Assets, Attacks, Countermeasures, Risks, Threats, Vulnerabilities	Risks: Data thelf, Privacy Insusion, Intellectual property theft Threats: Cyberricanish, Yardare, Insider Privasi Vulnerabilities: User imput validation, Insecure data storage, Insufficient authentication methods	Protect [29]	App to learn basics of Cyber Security using tutorials, lessons, and exam questions.	
		1						1				Asset: Information about the user's digital assets and how to protect them. Countermasures: Guidance on implementing security measures to mitigate risks.			
GPL19	app.traced	Trustd Mobile Security	11.0.21	24.01.2020 15.04.2024	54 Too	ols 307273	4,5219675 Location; Other	Push [30]	Yes, Desktop	Normal Users	Assets, Countermeasures, Risks, Threats	Bliks: Information about potential security and privacy risks associated with mobile devices. Thesatis: Tronsitige about common Winavia to mobile security and privacy. Asset: Local devices, Network devices, Bitdelender ECK, User data, Personal profiles	Identify, Protect, Detect [31]	Trauté Mobile Security app provides comprehensive mobile security and privacy protection, offering uses real-time threat detection, secure browsing, and privacy advisor features to safeguard their devices and personal data.	Ulfree
											Assets, Attacks, Countermeasures, Risks, Threats,	Asset Loud devices, Nethrode devices, Bibleforder BCU, User dar, Personal profiles Antactic Usukon/Devices, Bibleforder BCU, User dar, Personal profiles Antactic Usukon/Devices devices, Entries statisch, Internetivation Countermonauses Rud-insen brand detection, Perental controls, Device management, Web filtering, Location reporting Countermonauses Rud-insen brand detection, Perental controls, Device management, Web filtering, Location reporting Countermonauses Rud-insent Brand Rud-insent Season (Countermonause) Antactic Usukon/Devices (Countermonause) Antactic Usukon	Identify, Protect, Detect,	Control security for all Bibliefender-protected devices, and to set up and manage	
GPL20	com.bitdefender.centralmgmt	Sittlefender Central	3.1.10.123	24.02.2016 08.05.2024	54 Too	ols 1403713	4.5 Identity, Contacts; Location, Phone; Wi-Fi connection information; Device ID & call information	io Push	Yes, Desktop	Normal User	name, Atlacks, Countermeasures, Risks, Threats, Vulnerab lities	Vulnerabilities: Unsecured Wi-Ft, Outdated software, Device theft Asset: The app educates about Assets	Identify, Protect, Detect, Responde, Recover [32]	Control security for all Biblefender-protected devices, and to set up and manage Biblefender BCK (unant home hab to monitore wifi) Tes	
											Assets, Attacks, Countermeasures, Risks, Threats,	Attacks: The appr educates about Attacks Countermeasures: The appr educates about countermeasures Black: The appr educates about ricks Black: The appr educates about Tribas Threats: The appr educates about Tribas			
10501	com.abc.comptiasecurityplus	CompTIA Security+ Exam Prep	3.9.5	06.03.2020 18.04.2024	4 Educatio	ion 5327	4,88652 Location; Identifiers; Usage Data	None related to security	Yes, Webversion	Normal User	Name, Attacks, Countermeasures, Risks, Threats, Vulnerabilities		Protect [33]	App to learn Cyber Security gaining the SYO-601 or SY0-701 certificate if successfully complete Tes	
								Bush to Committee				Biol. Do Mobile offers were about patertial risks through features like the decirity Deckup, which verifies device setting appaint recommended security writings and highlights and planting and highlights and planting and plant	belowife to		
10502	com.duosecurity.DuoMobile	Duo Mobile	4.65.0	08.03.2011 22.05.2024	54 Businer	ess 2071143	4,87526 Camera; Push Notifications; TouchID or FaceID	Push, In-App account change alerts	Yes, Desktop	Normal User	Risks, Threats, Vulnerabilities	ensure devices meet organizational security policies. Asset: The app educates about Assets	icentify, Protect, Detect, Respond, Govern [34]	Duo Mobile enhances security for organizations by providing multi-factor authentication (MFA) to verify user identifies and potent against insolvorized access to applications and systems. yes [35]	Bostons, Utilities
											Anna Anna Anna Anna Anna Anna Anna Anna	Attacks: The app educates about Attacks Countermasures: The app educates about countermessures Blask: The app educates about not appear about countermessures Blask: The app educates about risks Blask: The app educates about risks			
10503	chtruggets-ios-phone	CBT Nuggets	5.24.3	25.09.2012 12.10.202	13 Educatio	ion 5883	4,87489 Identifiers; Usage Data	None related to security	Yes, Webversion [26]	Normal Users, Business User	Assets, Attacks, Vulnerabilities, Countermeasures, Risks, Threats	Threats: The appreducates about Threats Vulnerabilities: The appreducates about Vulnerabilities	Protect [37]	The CBT Nuggets ago allows Users to conveniently access and developed a comprehensive library of training ocurses on their ifftone or iffed, ensuring continuous learning anytime and anywhere. Wes [18]	
												Countermeasures:			
												Tracker Bicker: Dicklacks on Brist sols to block trackers and als, belging to protect users from being tracked online. Not P Address Serting, Dicklacks do sent necessy lower P Binders when you perform a sent; preventing the objections of personal data. No Search Initiation: Disclacks does not store your search history, emuring that your searches remain private and enterpressor. No Search Initiation: The supprevents search lessage by preference glatins, which means the substaces you visit out necessary our search terms.			
												Maka:			
												General Driller Bisks: DuckDuckDo outlines several risks, including the fact that using their search engine doesn't protect users from malware or virus infections, and the necessity of a VPN to bisk activities from 50%. They also highlight the interations of their protection core users with external websites.			
														The DuckDuckGo app is used to conduct secure and private critice searches, blocking trackers and ensuring that users'	
10504	com.duckduckgo.mobile.ios	Duck Duck Go	7.120.0	27.06.2013 20.05.2024	14 Utilitie	ies 1801003	4,85585 Camera; Location	Push [39]	Yes, Webversion [40]	Normal User	Countermeasures, Risks, General Security Advices	users and businesses Assets: Autherricator codes, Google Account, Phone, Online accounts Countermeasures: 27A - Second step of verification, Code generation without network	Protect, Detect [41]	search histories and personal data remain confidential. In-app purchases [42] Google Authenticator enhances the security of your online accounts by requiring a time-based	Utilies, Productivity
10505	com.google.Authenticator	Google Authenticator	4.1.1	20.09.2010 19.03.2024	4 Utilitie	ies 630579	4,84354 Location; Contacts; Identifiens; Usage Data	None	No, mobile only	Normal Users [43]	Assets, Countermeasures, Risks	Risks: Loss of phone, unauthorized access to a account by a third party Threats: The acc provides information on occential unauthorized access attempts and uses anti-theft measures like break-in reports with chotos.	Protect, Recover [44]	ucodgar Austerticator enhances the allocary or your crient accounts by regaring a time -celear accounts yeelfication code from the upp, in addition to your pleaseword, during sign-in of 2/A supported accounts. No	
10506	com.appslab.safelock	Safe Lock - Private Photo Vault	2.15	18.03.2017 02.05 2024	14 Photo & Virte	leo 2280%	4,83052 Location; Photos/Media/Files; ICloud Access; General Device Permissions	Push	No, mobile only	Normal User	Threats, Assets, Countermeasures	Treats: Ire upp protoss recommon on perceita unsurronise access attempts and uses are heart measures and edia-de-prepared with protoss. Countermeasures: It implements various security features such as multiple lock option (IPN-code, Tubu T, Face ID), Education, Education and plateak distriction mechanisms to ensure the security of user data> Do we consider this as countermeasure, these are mechanisms, not information Assets: the photon. Assets: the photon.	Protect, Detect [45]	A user can utilize the Safe Lock - Private Photo Vauli app to securely store and protect sensitive photos and videos on their Phone, ensuring privacy through advanced security features like PIN codes, Touch 10, and break-in slerts. Tes [44]	Photo & Voles, Utilities
												Asset Photos, Videos, Private Albums Astacis: Brain-A, Videos, Private Albums Astacis: Brain-A sterepts to vasist Countermeasures: Presect Private Albums Astacis: Brain-A sterepts to vasist Countermeasures: Presect Private App Entry, Pin Lock, Pattern/Dot Lock, Break-in Report (Photo + GPS), Decoy Password, Encrypted Cloud Backup Countermeasures: Presect Private Asset Private Pri	177	Private (Proto Natl movides source necessary), replanted stream for your ehobre and videos	
10507	com.enchantedcloud.photovault	Private Photo Vault - Pic Safe	17.0	08.02.2011 13.05.2024	94 Photo & Vide	leo 928845	4,82454 Identifiers; Photos/Media/Files; Usage Data	None	No, mobile only	Normal User	Assets, Attacks, Countermeasures, Risks, Threats	Bluks: unwanted photos beeing leaked, Data loss if device is lost and not backed up Threats: Unauthorized access by a criminal	Protect, Detect [47]	Phrists Photo Vauxt provides secure, password-protected storage for your photos and videos, allowing you to operation, thick, and mininger your media with features like encrypted cloud backup, and a private web browser. Test [45]	
10508	com.mseven.msecure5	MSecure	A1A	15.05.2017 01.04.202	g production	iby aron-	4,83533 Photos/Media/Files; Camera; Contacts; Notifications; Youch/D or FaceID	Push (49)	Yes, Desktop	Normal User	Countermeasures, Risks. General Constitution Adultum	Countermasures: refecuse provides features like encryption, bierentic autherfactisher (Sace 107/100n 100, secure password generation, and secure backup options to protect cours' did against unsubstroomed across. 18/06: The agen may include notifications or remodes about potential risks, such as weak or reused passwords, and advise users to update or strengthen them. Other: General bear particular for password management and secure storage of personnal information.	Identify, Protect, Recover [50]	misecure app securely manages and stores all passwords and personal information, ensuring easy access across devices with robust encryption for enhanced privacy.	Productivity
			0.10	55,94,202	FIGURE	4,504	Thompson and a second the second transfer of a second				Action actions of the second second	Other: Uniform a cert practice for password management and secure storage or personal information. Asset: The apprehenses abound Assets. Assets: The apprehenses abound Assets. Considerationary in the apprehenses about of the about th		JMI 241	
10509	com.pocketprep.app.licybersecurity	IT & Cybersecurity Pocket Prep	3111	20.04.2020 27.05.303	54 Februaria	ion area	4,8135 Identifiers	None	Yes, Webvenion (57)	Normal User, Buisness User, Security Expe	Assets, Attacks, Vulnerabilities, Countermeasures, Risks, Threats	Countermeasures: The app education about countermeasures Risks: The app education about Tevats Threats: The app education about Tevats (Waterschlöser: The app education about Tevats) (Waterschlöser: Tap app education about Valverschlöser: March Valverschlöser: Mar	Protect [54]	Proclet Physhi IT & Cybernecurity app provides access to comprehensive exam preparation for 21 different certifications, offering hundreds of practice questions, various quit modes, and detailed performance tracking to help you subsylvilicatingly and detailed year (activation) or your mobile device. [151]	
10309		or Cycle recurstly PODRE Prep	3.13.1	24.05.2024	Laucatio	4/99		- India	resonanti [24]	user, succeed User, security Expe	content and EMPS	Risks: The app may inform users about the risks of browsing without a VPN, such as exposure to tracking, data theft, and unsecured networks. Construmentures: Surfished often advantas soon on from the VPN service acts as a reconstruministic exercise problem. Such as expositive internal traffic and		от опер уже тогор — ответор или инполнену от уме томоги метом. No. 25	
10510	com.surfshark.vpnclient.ios	Surfshark VPN: Fast & Reliable	3 16 7	02.08.2018 21.04.2024	g production	iby 62367	4,79229 VPN Configurations; Notifications	Push (56)	Yes, Desktop	Normal User	Risks, Countermeasures, Threats	Coorderneasures: Surfished Other educates users on how the VPN service acts as a coorderneasure against ordine threats, such as encrypting inferent testic and marking the addresses. Threats: The aga might provide general information about common ordine threats, such as cyber-attacks, phishing, and malware, emphasizing the importance of using a UPN for protection.	Protect, Detect, Respond [57]	Surfahark VPN app enables users to securely browse the internet on their IOS devices by encrypting their ordine traffic and masking their OP addresses, protecting them from other threats and ensuring privacy. yes	Productivity, Utilities
10511	com.winevpr.free	WireVPN - Fast VPN & Proxy	3.6	29.03.2022 28.05.202	4 Productivit	rity 61704	4,79179 VPN Configurations; Hospitalisms 4,78089 VPN Configurations; Usage Data	Push [58]	Yes, Desktop	Normal User Normal User	Assets, Countermeasures	Jourg a very sor protection. Asset: User privacy, User data Countermeasures: Secure VPN tunnel, No recording of user name, No recording of email address, No recording of payment information [59]	Protect [60]	makking their or appreciate, protecting mem term cycler triviate and enturing protect; wheepin is a factor VPR that protecting mem term cycler triviate and enturing protects server nodes for optimal connection and a zero-advertising experience without requiring personal information or payment details. No [61]	
	com phonesus of the second	Phone Guardian Falo		13.06.2014				Dush (62)	No mobile	Normal User	Attacks Counterman There	Attacks: The app informs users about potential attacks, such as malicious websites or unsecure WH-Fi networks. Countermeasures: it offers information on countermeasures by providing a secure VPN connection to protect user data.	Probact Detect (41)	The Phone Guardian Mobile Security app provides a secure VPN connection to safeguard your internet activities on mobile	Productivity Vallein
10512	com,phoneguardianapp.ios	Phone Guardian Safe Mobile VPN	4.0.1	13.08.2015 19.09.202	Utilitie	35919	4,7684 VPN Configurations; Notifications; Location; Wi-Fi Connection Information	rum (64)	enu, mooné only	mu-tel User	rosauxi, Countermeasures, Threats	Threats: Users are altered to threats, such as the detection of potentially harmful activities or unade connections. Asset Tests, Vision exassing, Printing, Vision, Orf, Fise, Date connection, Vision calls, Chrosp charle, Stories, Admin permission settings, Signal Protocol, Principal States, Libertanens, User accounts, Verification codes, Exception layer Countermanumer. Libert on event country, Verification codes, Exception layer Countermanumer, Libert C	Protect, Detect [63]		Producing Satisfa
	org, whispersystems signal	Sienal - Private Mossaneer	7.11	20.07.2024	Social Naturation	nel 724375	4 79178	Push (65)	Nes, Desktop	Normal User, Business User, Security Expert	Assets, Countermeasures	Countermeasures: End-to-end encryption, Admin permission settings, Privacy settings, Open source, Key fingerprints, Trust-on-first-use, Screen lock timeout; Face blur, Registration Lock, QR code verification	Protect, Govern [66]	Signal is a free messaging app focused on privacy, providing end-to-end encrypted texts, voice and video calls, and group chats, while ensuring no data collection No	

												Assets: RoboTorm helps users manage their digital assets, such as passwords, login details, and secure notes. However, it does not provide explicit information or			
												management options for broader assets.			
												Countermeasures: By offering features like strong password generation, secure storage, and autofil capabilities, RoboForm acts as a countermeasure against various			
												cyber threats by enhancing pissword security and reducing user reliance on weak or reused passwords.			
1										L		Risks: Through alerts about weak, reused, or compromised passwords, RoboForm informs users about potential security risks associated with their password		RoboForm Password Manager securely stores and manages all your passwords and login information, enabling quick and	
10514	com.sibersystems.RoboForm	RoboForm Password Manager	9.5.9 13.10.2009	17.05.2024	Productivity	40118 4,71	3413 Contacts; Storage; Internet Access; Accessibility Services; Notifications	Push [67]	firs, Desktop	Normal User	Assets, Risks, Countermeasures	practices.	Protect [68]	safe access to your online accounts across multiple devices with a single master password. yes [69]	Productivity, Utilities
1 1									1					WebSSH Essential is a versatile client for SSH, SFTP, TELNET, and Port Forwarding, offering robust authentication methods,	
1												Asset: SSH, SFTP, TELNET, Port Forwarding, Local terminal	l.	local terminal commands, file management capabilities, and secure access through Touch ID or Face ID, making it a reliable	
10515	com.itimeteo.webssh	WebSSH - SysAdmin Tools	26.4 08.03.2012	28.05.2024	Developer Tools	1803 4,7	7321 None	None	Yes, Desktop	Susiness User; Security Expert	Asset, Countermeasures	Countermeasures: Password authentication, Two-factor authentication, RSA/DSA/ED25519/Putty Private Key, Port Knocking, Touch ID, Face ID	Protect	tool for remote server management. yes	
									1			Assets: While the app might not explicitly label information as "assets," it does protect various assets on your device, such as personal data, photos, and other			
1 1									1			sensitive information, by alerting you to threats that could compromise them.			
												Attacks: The app alerts users to potential attacks, such as malesare, phishing attempts, and other malicious activities that target users' devices and personal			
												resource. The apply are to use is to potential attacks, south as manually, propring accompany, and other manuals accompany to the target users to provide and personal informations.			
1 1									1						
1 1		1	1				1	- 1	1	I		Countermeasures: Avast provides information and tools as countermeasures against identified threats. This includes antivirus scans, VPN services for secure	I		
		1	1						1	I		browning, and features designed to block malicious sites and downloads.	I		
1 1		1	1						1	I			I		
1 1		1	1				1	- 1	1	I		Bisks: The app identifies and informs users about risks associated with unsecured Wi-Fi networks, apps with excessive permissions, and other privacy-related risks.	I		
1 1	1	1	1			- 1		1	1	I	I	I and the second	I	I I	
1 1		1	1						1	I		Threats: Assat Security & Privacy actively informs users about various threats, including viruses, malware, spyware, and potentially unwanted programs (PUPs) that it detects during scans.	I		
1 1		1	1						1	I		overests during scans.	I		
											Attacks, Assets, Countermeasures, Risks, Threats.	Vulnerabilities: The app can inform users about vulnerabilities, such as out-of-date software or weak settings, that could make their device more susceptible to		The Avaist Security & Privacy app is ideal for securing personal devices against cyber threats, ensuring privacy, and	
10516	com.avast.ios.security	Avest Security & Privacy	24.8.0 29.07.2018	02.05.2024	Utilities	79717 4 77	2976 Notifications; VPN Configurations; Photos/Media/Files; Camera; Location; Wi-Fi Conne	nation (Dush (20)	Nes Desiston	Normal User	and Vulnerabilities	Valentamente. The applican interior users about varietisation, such as out-of-case sortiage or mean settings, that could make their users interior to straight the could make their users in the straight to straight the could make their users in the straight that the straight the could make their users in the straight that the straight the straight that	Protect. Detect [71]	enhancing performance through comprehensive malware protection, Wi-Fi security checks, and system optimization tools. yes [72]	Productivity, Utilities
							Procedural, VFA Comparators, Francis Heart Hear, Carriera, Locator, HFF Comp					Asset: Personal data, passwords, IP address, location.		here are a second to the secon	
												Attacks: Data theft, 159 tracking, Practice, Victoria, Attacks: Data theft, 159 tracking, Practice,			
												Countermeasures: Encryption, IP hiding.		Browsec free VPN offers secure, encrypted internet browsing by protecting your public Wi-Fi connections.	
												Risks: Data exposure, privacy loss.		birting year IP and Innation, and remoting arrays to multiple virtual innations	
10517	com.browsec.vpnclient	Browsec VPN: Fast & Ads Free	3.31.0 15.04.2015	30.05.2024	Productivity	15939 4,3	7045 VPN Configurations; Usage Data	Push [73]	Yes, Desktop	Normal User	Assets, Attacksm Countermeasures, Risks, Threats	Threats: Mulicious ISPs, hackers.	Protect [74]	with premium options for additional server locations, turbo speed, and priority support. Yes [75]	
1 1									1			Assets: While the app might not explicitly label information as "assets," it does protect various assets on your device, such as personal data, photos, and other			
												sensitive information, by alerting you to threats that could compromise them.			
												Threats: McAfee typically informs users about various cybersecurity threats. This could include malware, phishing attempts, spyware, and other malicious software			
												or links found on their device or encountered online.			
												Vulnerabilities: The app may alert users about vulnerabilities, such as outdated software or weak system settings, which could potentially be exploited by			
1 1		1	1						1	I		cyberchmans.	I		
1 1		1	1						1	I		Bisks: McAfee often assesses and communicates risks associated with user behaviors, app installations, or website visits. This includes identifying potentially risky	I		
1 1	1	1	1			- 1		1	1	I	I	INDUCTION OF THE REPORT OF THE PROPERTY OF THE	I		
1 1		1	1						1	I			I		
		1	1						1	I		Countermeasures: White not always explicitly categorized under this term in user notifications, McAfee provides guidance and automated solutions as	I		
1 1		1	1						1	I		countermeasures against identified threats and vulnerabilities. This includes recommendations for improving security settings, activating VPN protection for safer	I		
1 1	1	1	1			- 1		1	1	I	I	browsing, and performing scans to detect and remove harmful software.	I		
1 1	1	1	1			- 1		1	1	I	I	I .	I		
I I	com.mcafee.mms	McAfee Security: Privacy & VPN	8.4 08.01.2014	30.05.2024	Utilities		L		L	Normal Utar	Attacks, Assets, Countermeasures, Risks, Threats, and Widnershilltes	Attacks: In the event of an active threat or if suspicious activity is detected, the app can alert users about these attacks. This can include real-time alerts about malware infection attempts or unauthorized access attempts.	L		Productivity, Utilities
10518	com.mcaree.mms	MICARRE SECURITY: PTWIRCY & VPN	8.4 08.01.2014	au.05.2024	utilities	1/5193 4,6	0895 Notifications; VPN Configurations; Location; Photos/Media/Files; Contacts; Wi-Fi Conn	nection Push [70]	tes, Desirop	Normal User	and varierabilities		Protect, Detect [77]	The McAlee Security: Privacy & VPN app provides users with a comprehensive solution for enhancing their cigital security an yes [78]	Productivity, Usinian
1 1		1	1						1	I		Asset: Photos, Videos, Albums, Gif Files	I		
1 1		1	1						1	I		Countermeasures: Lock screen, Disguise screen, Escape unlock code, Automatic locking	I	Hide it Pro allows you to securely hide your photos and videos on your iPhone behind a lock screen, with features such as	
I I	com.smartanuj.hideitpro	Hide Photos Video - Hide it Pro	6.1.1 25.05.2012	02.06.2024	Photo & Video	22962 4,68		L	L	Normal User	Assets, Countermeasures, Risks, Threats	Risks: Data leakage Threats: Unauthorized access	Protect, Recover [79]	multiple customizable albums, built-in media viewers, cloud backups, disguise screen, and an escape unlock code for	
10219	Container and production	rase rissus vises visital (FPI)	9.1.1 25.05.2012	02.00.2024	FINAN WIDEO	4,00	and arrada	nuie	mu, maken kiliy	ACCURATION OF THE PROPERTY OF	Assets, Countermeasures, RSKS, TREESS	HITTERS WITHOUTH AND ALLERS	Printers, Mesover [79]	Age (40)	
1 1		1	1				1	1	1	I		Assets: While the app might not explicitly label information as "assets," it does protect various assets on your device, such as personal data, photos, and other	I		
1 1		1	1				1	1	1	I		Assets: while the app might not expicinly aboil information as assets, it does protect various assets on your device, such as personal data, protos, and other tensible information, by alerting you to threads that could componentie them.	I		
1 1		1	1						1	I		sensitive intermation, by awring you to inners trust cours componies intern. Attacks: Information and airris about detected malware, philining attempts, and other types of cyberattacks.	I		
		1	1						1	I		Countermeasures: Recommendations and actions to mitigate detected threats, such as removing malware or avoiding suspicious websites.	I		
1 1		1	1 1						1	I		Risks: Notifications about potential security risks, such as using unsecured Wi-Fi networks or outdated software.	I		
		1	1						1	I		Threats: Alerts related to various types of cyber threats, including viruses, spyware, and other malicious activities.	I	Norton 360 Mobile Security & VPN provides comprehensive mobile protection by securing your device against malware,	
10520	com.symantec.mobilesecurity	Norton360 Mobile Security, VPN	2.88.0 02.10.2018	30.05.2024	Utilities	69781 4,67	7033 Notifications; Location; Network Access; Device Information; Storage; VPN Configurati	ons Push (81)	Yes, Desktop	Normal User	Attacks, Assets, Countermeasures, Risks, Threats, an	Vulnerabilities: Information about system vulnerabilities, such as outdated operating systems or software that need updates to improve security.	Identify, Protect, Detect, Respond (2 phishing, and online threats, while ensuring privacy with a secure VPN. yes [83]	Productivity, Utilities

[1]

Course updates
New content availability
Reminders for enrolled courses or lessons
Announcements about webinars or events
Promotional offers and discounts
General app updates and feature enhancements

[2]

Course Updates: Notifications about new course content, modules, or learning materials.

Reminders: Notifications to remind users about upcoming classes, assignments, or deadlines.

Promotional: Notifications about special offers, discounts, or promotions related to the app's content or services.

Announcements: Notifications regarding important announcements, events, or changes to the app's features or policies.

[3] Identify: Understanding and managing the security risks to mobile devices.

Protect: Providing security measures such as malware protection.

Detect: Notifying users about security threats, privacy risks, and potential vulnerabilities on the device.

Respond: Change compromised passwords

[4]

Study Reminders

Users can set study reminders in the settings tab by toggling the notification to active and choosing specific days of the week and times for reminders. The content of the reminders can also be customized.

Daily Question Ready Notification

The app notifies users when the daily question is ready with a large call to action appearing over the progress bar

[5] there is browser version

[6]

Security Threat Alerts: Users receive notifications when the app detects potential security threats, such as malware, phishing attempts, or suspicious activities on the device.

Scan Results: Notifications about the results of scans performed by the antivirus software, including details about any identified threats or issues.

Update Reminders: Notifications to prompt users to update the antivirus app or virus definitions to ensure the latest protection against emerging threats.

Scheduled Scans: Notifications reminding users about scheduled or recommended scans to maintain the security of their devices.

[7] and browser

[8]

Identify: This function involves identifying and understanding the security risks, vulnerabilities, and threats to mobile devices, as well as recognizing the importance of securing personal and sensitive information.

Protect: This function encompasses the protective measures and safeguards implemented by the app to secure mobile devices from malware, phishing attempts, and other digital threats.

Detect: The app is designed to detect and identify potential security threats, including malware, suspicious activities, and other risks that may compromise the security of mobile devices.

Respond: The app provides users with the capability to respond to security incidents and take appropriate actions to mitigate the impact of identified threats or vulnerabilities.

[9] Identify: Smart Home Monitor, Data Leak Checker, Apps Permission Manager

Protect: Antivirus Protection, Anti-Phishing, Safe Browsing, Safe Messaging, Password Manager, VPN, Social Privacy, Quick Scan, Full Scan, File Antivirus, Unused Apps Cleanup, Stalkerware Detection, Call Filter, App Lock, Identity Protection Wallet

Detect: Background Scan, Data Leak Checker, Stalkerware Detection, Smart Home Monitor

Respond: Where Is My Device, Device Lock in case of theft

[10] notifications related to promotions and upgrades to its pro subscription

[11] browser version

[12] identify, protect, detect, respond if we consider what are people being taught about

[13] Identify: App Insights, Hack Alerts

Protect: Antivirus Engine, Photo Vault, App Lock, Web Shield, Wi-Fi Security, VPN, Email Guardian

Detect: Antivirus Engine, Hack Alerts, Scam Protection, Email Guardian

[14] Norton Genie: Al Scam Detector app provides notifications regarding potential scams or suspicious content in text messages, emails, websites, and social media posts. When the app scans and reviews these messages, it offers instant advice on whether the content could be a scam, providing guidance on next steps. Additionally, it can provide tips on what to do next and answer follow-up questions about the nature of the potential scam. The Norton Genie: Al Scam Detector app also provides notifications related to the security status of your device, including alerts about potential security threats, vulnerabilities, or suspicious activities detected on your phone.

[15] browser

[16]

Identify: The app helps users identify potential security risks, vulnerabilities, and threats to their digital assets and online activities. This may include identifying personal data exposure, weak passwords, or unsecured connections.

Protect: It provides guidance and tools to protect users' digital assets, such as offering advice on secure password management, safe browsing practices, and data encryption.

Detect: The app is designed to detect potential security threats and suspicious activities on users' devices or within their online accounts. This may include identifying malware, phishing attempts, or unauthorized access.

Respond: In the event of a security incident, the app may provide guidance on how users can respond effectively, such as reporting suspicious activity, containing a security breach, or seeking assistance from security professionals.

[17] Identify: App Insights

Protect: Virus cleaner, Smart on-install virus scanner, Real-time scanning

Detect: On-demand scanning

Respond: Upgrade option to lock, locate, and wipe device in case of loss or theft

[18]

Security Alerts: Notifications about potential security threats, such as malware detection, phishing attempts, or unsecured Wi-Fi networks.

VPN Connection Status: Updates on the status of your VPN connection, including when the VPN is activated or deactivated.

App Updates: Notifications regarding updates to the app itself, including new features, bug fixes, or improvements to security protocols.

Scan Results: Notifications informing you of the results of periodic scans for malware and other security risks on your device.

Privacy Alerts: Notifications about potential privacy risks or data breaches related to your online activities or installed apps.

[19] and browser

[20]

Identify: The app helps users identify potential security threats, privacy risks, and vulnerabilities on their devices and networks.

Protect: It offers protection against malware, phishing attempts, and unsecured Wi-Fi networks, safeguarding users' devices and data.

Detect: The app detects security threats, including malware and privacy risks, through scans, real-time monitoring, and security alerts.

Respond: It enables users to respond to security alerts, take action against detected threats, and manage their security settings promptly.

[21] Identify: Antivirus Scan, Pre-Installation Scan, Web Guard

Protect: Advanced Al scan, Pay Guard Mobile, Privacy Scanner, Wi-Fi Checker, Parental Control

Detect: Advanced Al scan, Web Guard, Fraud Buster, Privacy Scanner, Wi-Fi Checker

Respond: Lost Device Protection & Anti-Theft, Fraud Buster

Recover: Lost Device Protection & Anti-Theft, Device wipe

[22] Security Threat Notifications:

Bitdefender Mobile Security notifies you about any security threats it detects on your device, such as malware, viruses, or phishing attempts.

Privacy Notifications:

It alerts you about potential privacy risks, such as apps accessing sensitive data without permission or insecure Wi-Fi networks.

App Update Reminders:

The app may notify you about available updates for your installed apps, helping you keep them up to date and secure.

Anti-Theft Notifications:

If you've enabled anti-theft features, the app can send notifications related to your device's location, remote lock or wipe commands, or SIM card changes.

Scheduled Scans and System Checks:

You may receive notifications regarding scheduled malware scans or system checks to ensure your device's ongoing security.

Subscription Renewal Reminders:

For users with a subscription, Bitdefender Mobile Security may send notifications about upcoming subscription renewals or expirations.

Customizable Alerts:

The app allows you to customize notifications based on your preferences, so you can choose to receive specific alerts according to your needs.

[23] browser too

[24]

Identify: Understanding and managing the security risks to mobile devices.

Protect: Providing security measures such as malware protection, privacy audits, and anti-theft features to safeguard the device.

Detect: Notifying users about security threats, privacy risks, and potential vulnerabilities on the device.

[25] Identify: Device Report Card

Protect: VPN, Ad Blocker, Malware Scanner, Antivirus, SMS Security

Detect: WiFi Analyzer, App Scanner, Spyware Detection, Internet Security

Respond: WiFi Security Alerts

[26]

Network Events: Notifications about changes or events related to the devices and networks you are monitoring, such as new device connections, network outages, or changes in network status.

Security Alerts: Notifications about potential security risks, vulnerabilities, or suspicious activities on your network, providing you with real-time information to enhance the security of your network.

Performance Updates: Notifications related to the performance of your network, including speed tests, network latency, or bandwidth usage alerts.

[27] and Desktop

[28] Identify: Fing - Network Tools helps to identify connected devices, network vulnerabilities, and potential security risks within the network. Protect: The app assists in protecting the network by providing insights into security vulnerabilities and potential threats, allowing users to take proactive measures to secure their network.

[29] Only learning app only:

Protect: protect yourself with knowledge:)

[30]

Security alerts for potential threats or vulnerabilities detected on the device.

Notifications regarding scheduled or recommended scans for malware and other security risks.

Alerts for app updates, especially those related to security patches or fixes.

Notifications for any privacy-related issues or concerns detected on the device.

[31

Identify: By identifying potential threats and vulnerabilities on the device.

Protect: By offering features to protect the device from security risks and privacy concerns.

Detect: By providing real-time threat detection and alerts for potential security issues.

[32] Identify: Discover your devices,

Protect: Manage security, Parental controls, Web filtering

Detect: Instant threat notifications, Anomaly detection, Real-time notifications for threats

Respond: Scan, clean, and optimize devices, Send text/sound alerts, Pause internet connection

Recover: Locate lost/stolen devices

[33] Only learning app only:

Protect: protect yourself with knowledge:)

[34]

Identify: By providing visibility into every device that accesses applications, Duo helps organizations identify vulnerable devices and compile a full device inventory. This aligns with the Identify function by managing cybersecurity

risks to systems, people, assets, data, and capabilities.

Protect: Duo Mobile's use of multi-factor authentication (MFA), device trust, and adaptive access policies helps protect systems and data from unauthorized access. This aligns with the Protect function, which outlines safeguards to ensure delivery of critical infrastructure services.

Detect: Through detailed reports and Trust Monitor, Duo Mobile offers capabilities to detect unauthorized access attempts and unusual login patterns, aligning with the Detect function that defines activities to identify the occurrence of a cybersecurity event.

Respond: Duo's capabilities to monitor and notify about unusual login patterns indirectly support the Respond function by taking action regarding a detected cybersecurity incident.

Govern: Although not explicitly mentioned as "Govern," Duo Mobile's adherence to various compliance standards and guidelines, including SOC 2, FIPS, FedRAMP, and NIST guidelines, demonstrates its role in governance, ensuring policies and procedures are followed to manage and reduce cybersecurity risk.

[35] Duo Free: Basic features including strong Multi-Factor Authentication (MFA), Passwordless, Single Sign-On (SSO), and Trusted Endpoints verification.

Duo Advantage: Includes additional features such as detailed device health monitoring, adaptive user, device, and application access controls, and a secure SSO experience.

Duo Premier: The most comprehensive solution offering complete zero trust access for every application and VPN-less remote access to private resources

[36] but there is a browser version

[37] Only learning app only:

Protect: protect yourself with knowledge:)

[38] \$58.99 per month as In-app purchase after 7 Day trial is over

[39] App Tracking Protection Notifications

Tracking Alerts: Notifies you when third-party trackers are blocked within other apps on your device, providing details on which apps attempted to track you.

Privacy Protection Notifications

Privacy Report Updates: Regular updates on the number of trackers blocked and other privacy-related activities within the browser.

Cookie Pop-Up Protection: Notifications about the automatic handling of cookie consent pop-ups, ensuring the most private options are selected.

Security Notifications

Encryption Alerts: Alerts when a website's connection is not secure or encrypted, helping you stay informed about your browsing security.

Fingerprinting Protection: Notifications when fingerprinting attempts are blocked, providing details on the protection actions taken against tracking attempts.

Feature Updates

New Features and Improvements: Notifications informing you about new features, updates, or enhancements to the DuckDuckGo app, such as improvements to page load performance or new privacy tools.

[40] but there is a browser version

[41]

Protect:

DuckDuckGo excels in this function by offering features like tracker blocking, smart encryption, and private search, all of which protect users from being tracked and ensure their search information remains private.

Detect:

The app provides features that detect and block trackers in real-time, offering users insight into tracking attempts and the entities behind them.

[42] The DuckDuckGo Private Browser app itself is free and offers in-app purchases. Specifically, it provides a subscription service called Privacy Pro, which includes features like a VPN to secure your connection on up to 5

devices, personal information removal from sites that store and sell it, and identity theft restoration assistance if your identity is stolen. Privacy Pro requires a subscription, and payment is charged automatically to your iTunes account until you cancel, which you can do in the app settings

[43] all types possible

[44] Protect: Second step of verification

Recover: Sync codes to Google Account, Transfer accounts between devices

[45]

Protect: This function is covered by the app through its various security features like password protection and encryption to safeguard private photos and videos. It ensures the delivery of critical infrastructure services while limiting the impact of potential cybersecurity events.

Detect: Safelock provides features that could fall under this function, such as break-in alerts that notify the user of unauthorized access attempts. This aligns with detecting anomalies and ensuring the potential impact is understood

[46] The premium subscription unlocks all features to manage personal content within the app, such as additional lock patterns, Touch ID, extra security features for internal albums, and more. The subscription plans include options for 1 month at \$1.99 and 12 months at \$11.99

[47] Protect: Password Protected App Entry, Pin Lock, Pattern/Dot Lock, Password Protected Photo Albums

Detect: Break-in Report (Photo + GPS data logged)

[48] Yes, up to 39.99\$ per year. as in-app purchase

[49] Security Alerts, Password Expiry Reminders, Sync Status, Software Updates, Backup Reminders.

[50]

Identify: mSecure helps users identify and catalog their sensitive information, such as passwords, credit card details, and other personal data.

Protect: The app provides protection through encryption, secure password generation, biometric authentication (Face ID/Touch ID), and secure storage of data.

Recover: mSecure offers secure backup and recovery options to ensure users can restore their data if needed.

[51] mSecure offers both a free version and a paid version, known as mSecure Pro. The Pro version is available as a one-time purchase, providing enhanced features over the free version. These features often include advanced security options, more customization, cloud syncing across devices, and additional types of entries like bank accounts, memberships, and many others.

[52] No app, but has desktop Version as a website

[53] allows to study for 21 different exams. might be used in business context or experts to get a certificate.

[54] Only learning app only:

Protect: protect yourself with knowledge:)

[55] 119.99\$ per year

[56]

Connection Status: Notifications about when the VPN connection is established or disconnected.

Connection Issues: Alerts if there are problems connecting to a VPN server or if the connection drops unexpectedly.

Security Alerts: Notifications about potential security threats or suspicious activity detected.

Subscription Reminders: Reminders about subscription expirations, renewals, or special offers.

App Updates: Information about new features, updates, or important changes in the app.

Usage Tips: Tips and best practices for using the VPN service effectively and securely.

Promotional Messages: Notifications about promotions, discounts, or new service offerings.

[57]

Protect:

The app encrypts internet traffic, helping protect users' data from interception and unauthorized access.

It masks IP addresses, protecting users' identity and location.

It provides secure connections to prevent data breaches and cyber-attacks.

Detect:

While the app itself is not a detection tool, it can prevent certain types of malicious activities by blocking trackers and malicious websites through features like CleanWeb.

Respond:

The app can automatically reconnect or alert users when the VPN connection drops, ensuring continuous protection.

[58] VPN conection status

[59] other information not provided by app

[60] Protect: User privacy, No recording of personal information, Secure VPN

[61] completely free

[62]

VPN Connection Status: Alerts when the VPN is connected or if there's a disconnection, ensuring users are aware of their privacy status.

Security Alerts: Notifications about potential security threats detected while browsing or using apps, such as malicious websites or unsecured Wi-Fi networks.

App Activity Monitoring: Alerts related to the monitoring of app activities that could compromise privacy, informing users of any suspicious behavior.

Data Usage: Information on data usage through the VPN, which can be particularly useful for users monitoring their data consumption.

Updates: Notifications about updates to the app itself, including new features, bug fixes, or enhancements to improve performance and security.

Promotional Offers: For apps that include freemium models or in-app purchases, notifications might include promotional offers or incentives for premium features.

[63] Protect: By providing a VPN service, the app helps protect information and communications through encryption, thereby securing data from unauthorized access.

Detect: It can alert users to potentially harmful activities or unsafe connections, acting upon the detection of threats or insecure environments.

[64] the Phone Guardian Mobile Security app for iOS primarily operates on a freemium model, offering its core services for free while also including optional in-app purchases for advanced features. This model allows users to benefit from basic VPN functionalities at no cost, with the option to enhance their security and app capabilities through paid upgrades.

[65] Notifications of messages. Content is end to end encrypted, but it is known that law enforcement has the ability to de-anonymize users by using a timing attack (tracking message timestamps)

[66] Protect: End-to-end encryption

Govern: Open source Signal Protocol, Independent non-profit organization

[67]

Security Alerts: Notifications about potential security issues, such as compromised, weak, or reused passwords, prompting users to update their credentials for enhanced security.

Sync Notifications: Alerts informing users when their data has been successfully synced across devices, or if there are any issues with syncing.

Update Reminders: Reminders to update the app to the latest version to ensure optimal functionality and security.

Two-Factor Authentication (2FA) Prompts: Notifications related to 2FA, such as codes for login verification.

Form Filling Notifications: Alerts when RoboForm has successfully filled in a form or login details on a website or app.

Password Generation: Notifications offering to generate a strong password when you're signing up for a new service or changing an existing password.

Subscription Updates: For users of the paid version, notifications about subscription status, renewal reminders, or promotional offers.

[68] Protect: RoboForm covers this function well by providing strong encryption for stored passwords and sensitive data, generating strong passwords, offering secure form filling to protect against phishing, and enabling two-factor authentication (2FA) for additional security layers.

[69] RoboForm Password Manager offers both a free version and a paid subscription model, known as RoboForm Everywhere, available in the iOS App Store. The free version provides basic features such as password storage and autofill functionality. In contrast, the paid subscription typically includes advanced features such as cloud backup, multi-device synchronization, secure sharing, web access, and premium 24/7 support.

[70]

Threat Alerts: Notifications about viruses, malware, or any other potential threats detected on the device.

Network Security: Alerts when you connect to an insecure or unprotected Wi-Fi network.

Privacy Protection: Notifications regarding apps that may be infringing on your privacy or accessing more information than necessary.

Performance Alerts: Information about available updates, or recommendations for improving device performance, such as removing junk files or optimizing battery usage.

Anti-Theft: Alerts related to the anti-theft features, such as if the device is marked as lost or if someone attempts to unlock the device unsuccessfully.

VPN Alerts: Notifications about VPN connection status, like when you're connected to a VPN server for secure browsing.

Subscription and Update Notifications: Information about your subscription status (for premium features) and updates to the app or virus definitions for keeping the protection up to date.

[71]

Protect: Avast Security & Privacy excels in this function by providing tools and features designed to safeguard devices and data from unauthorized access and cyber threats. This includes antivirus protection, Wi-Fi security checks, VPN services for secure browsing, and app privacy insights.

Detect: The app is actively engaged in detecting cybersecurity events and anomalies. It alerts users about malware, phishing attempts, and other forms of attacks or unauthorized activities on their devices.

[72] Avast Security & Privacy offers a paid version in the iOS App Store. This premium version typically includes advanced features such as enhanced security measures, VPN services for online privacy, identity protection, and additional tools to improve your device's performance. The paid version is designed to provide a more comprehensive security solution compared to the free version, with subscription plans available for users seeking these extra capabilities.

[73] VPN conection status

[74] Protect: Encrypt data, hide IP and location, safeguard public Wi-Fi connections.

[75] up to 59.99\$ per year as in-app purchase

[76

Security Alerts: Notifications about potential security threats detected on your device or within apps you've installed.

VPN Connection Status: Updates on the status of your VPN connection, including when you're securely connected to a VPN server or if there's an issue with the VPN service.

Privacy Protection Alerts: Alerts if the app detects a privacy risk, such as a breach involving your personal data.

Wi-Fi Security: Notifications about the security of your Wi-Fi connection, including warnings about unsecured or suspicious Wi-Fi networks.

Anti-Theft Alerts: If you've enabled anti-theft features, you might receive notifications about the location of your device if it's been marked as lost or stolen.

Device Performance: Updates on your device's performance, including reminders to clean up unnecessary files or manage apps for optimal performance.

Subscription and Update Information: Notifications about your subscription status, including reminders about renewals or updates to the app that are available for download.

[77]

Protect: Covered. McAfee Security: Privacy & VPN provides several features to help protect devices from cybersecurity threats. This includes VPN services for secure and private internet browsing, password management to protect user accounts, and security settings optimization to enhance device protection.

Detect: Covered. The app includes capabilities to detect a wide range of cybersecurity threats, such as malware, phishing attempts, and potentially unwanted programs (PUPs). It alerts users to suspicious activities and insecure Wi-Fi connections, helping to promptly identify security issues.

[78] McAfee offers several subscription plans for its services, including those tailored for iOS devices. These services typically encompass a range of features including privacy protection, VPN (Virtual Private Network), and other security measures aimed at protecting your device from malware, phishing, and other cyber threats.

[79] Protect: Secure hiding, Lock screen, Disguise screen, Automatic locking, Escape unlock code

Recover: Backup on Cloud storage, USB export

[80] Cloud storage option for 7.99\$ as in-app purchase

[81

Threat Alerts: Notifications about detected malware, phishing attempts, and other security threats.

VPN Status: Alerts regarding the status of the VPN connection, including when it is activated or disconnected.

Wi-Fi Security: Notifications about the security status of Wi-Fi networks, warning users about potentially insecure or compromised networks.

System Vulnerabilities: Alerts about outdated software or system settings that may pose security risks.

Identity Protection: Notifications related to identity protection, such as potential breaches involving personal information.

App and Web Protection: Alerts about suspicious apps and potentially dangerous websites.

Subscription and Account Information: Notifications regarding subscription status, renewals, and account-related updates.

[82]

Identify: The app helps identify potential security risks and vulnerabilities on the device.

Protect: It provides protective measures such as a secure VPN, safe browsing features, and real-time protection against threats.

Detect: The app detects various types of cyber threats, including malware, phishing attempts, and insecure Wi-Fi networks.

Respond: It offers response actions to mitigate detected threats, such as removing malware and providing security alerts and recommendations.

[83] Norton 360 for Mobile offers a paid version on the iOS App Store. The paid version typically includes additional features and enhanced protection compared to the free version, such as:

Advanced Threat Protection: Enhanced security features to protect against malware, phishing, and other threats.

Secure VPN: Access to a secure VPN service for encrypted and private internet browsing.

Web Protection: Safe browsing features to protect against dangerous websites and online threats.

Device Security Alerts: Real-time alerts for potential security risks and vulnerabilities.

Identity Theft Protection: Features to help protect your personal information and monitor for potential identity theft.